



RATING AND CHARACTERISTICS

Standard Varistors - 5mm

| Ordering Code   | Varistor Voltage at 0.1mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|---------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                    | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL US, CE, CCC              |
| JVT05N180M65□△△ | 18                        | ±20%      | 11                        | 14     | 40                       | 1      | 100                                 | 0.1                                | 0.01          | 0.6                | ☆★☆☆                        |
| JVT05N220L65□△△ | 22                        | ±15%      | 14                        | 18     | 48                       |        |                                     |                                    |               | 0.7                | ☆★☆☆                        |
| JVT05N270K65□△△ | 27                        | ±10%      | 17                        | 22     | 60                       |        |                                     |                                    |               | 0.9                | ☆★☆☆                        |
| JVT05N330K65□△△ | 33                        |           | 20                        | 26     | 73                       |        |                                     |                                    |               | 1.1                | ☆★☆☆                        |
| JVT05N390K65□△△ | 39                        |           | 25                        | 31     | 86                       |        |                                     |                                    |               | 1.2                | ☆★☆☆                        |
| JVT05N470K65□△△ | 47                        |           | 30                        | 38     | 104                      |        |                                     |                                    |               | 1.5                | ☆★☆☆                        |
| JVT05N560K65□△△ | 56                        |           | 35                        | 45     | 123                      |        |                                     |                                    |               | 1.8                | ☆★☆☆                        |
| JVT05N680K65□△△ | 68                        |           | 40                        | 56     | 150                      |        |                                     |                                    |               | 2.1                | ☆★☆☆                        |
| JVT05N820K65□△△ | 82                        |           | 50                        | 65     | 145                      |        |                                     |                                    |               | 2.8                | ☆★☆☆                        |
| JVT05N101K65□△△ | 100                       |           | 60                        | 85     | 175                      |        |                                     |                                    |               | 3.5                | ☆★☆☆                        |
| JVT05N121K65□△△ | 120                       |           | 75                        | 100    | 210                      |        |                                     |                                    |               | 4                  | ☆★☆☆                        |
| JVT05N151K65□△△ | 150                       |           | 95                        | 125    | 260                      |        |                                     |                                    |               | 5.5                | ☆★☆☆                        |
| JVT05N181K65□△△ | 180                       |           | 115                       | 150    | 320                      |        |                                     |                                    |               | 6.5                | ☆★☆☆                        |
| JVT05N201K65□△△ | 200                       |           | 130                       | 170    | 355                      |        |                                     |                                    |               | 7.1                | ☆★☆☆                        |
| JVT05N221K65□△△ | 220                       |           | 140                       | 180    | 380                      |        |                                     |                                    |               | 7.8                | ☆★☆☆                        |
| JVT05N241K65□△△ | 240                       |           | 150                       | 200    | 415                      |        |                                     |                                    |               | 8.4                | ☆★☆☆                        |
| JVT05N271K65□△△ | 270                       |           | 175                       | 225    | 475                      | 9.9    | ☆★☆☆                                |                                    |               |                    |                             |
| JVT05N301K65□△△ | 300                       |           | 195                       | 250    | 525                      | 10.5   | ☆★☆☆                                |                                    |               |                    |                             |
| JVT05N331K65□△△ | 330                       | 210       | 275                       | 575    | 11.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N361K65□△△ | 360                       | 230       | 300                       | 620    | 13                       | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N391K65□△△ | 390                       | 250       | 320                       | 675    | 15                       | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N431K65□△△ | 430                       | 275       | 350                       | 745    | 16.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N471K65□△△ | 470                       | 300       | 385                       | 810    | 17.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N511K65□△△ | 510                       | 320       | 418                       | 880    | 18.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N561K65□△△ | 560                       | 350       | 460                       | 940    | 19.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N621K65□△△ | 620                       | 385       | 505                       | 1050   | 20.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N681K65□△△ | 680                       | 420       | 560                       | 1150   | 21.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05N751K65□△△ | 750                       | 460       | 615                       | 1290   | 22.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight)

△△ : Lead Length & Packing

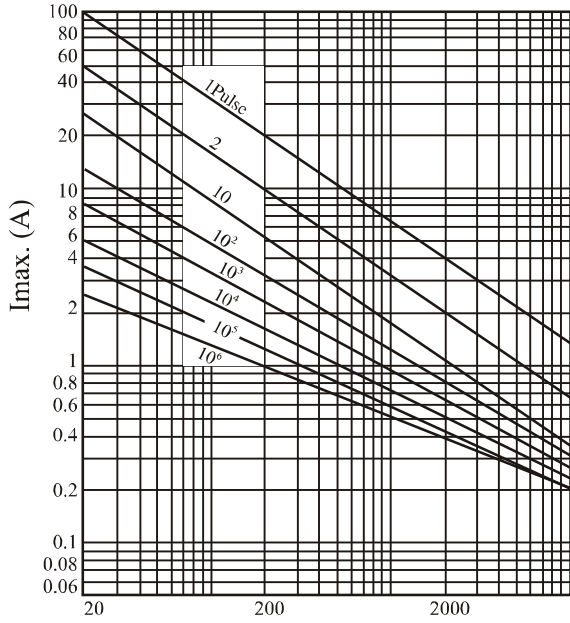
Application notes for UL,CUL,VDE and CQC reconized related standards

| Standard NO. | UL                                  | CUL                                 | VDE                                       | CQC  |   |
|--------------|-------------------------------------|-------------------------------------|---|--|---|
|              | UH1449<br>4 <sup>TH</sup> Edition   | CSA 22.2<br>N0. 8-13                | IEC61051-1<br>IEC61051-2<br>IEC61051-2-2  | GB/T1093-1997<br>GB/T10194-1997            | GB4943.1-2011<br>GB/T1093-1997<br>GB/T10194-1997<br>GB8898-2011 |
| Title        | Transient Voltage Surge Suppressors | Transient Voltage Surge Suppressors | Varistors for use in electronic equipment | Engaged in Voluntary Product Certification |   |
| File No.     | VZCA2.E325508                       | VZCA8.E325508                       | 1900600-4790-0002/209098                  | CQC15001130702/0703/0700/1017/0699         |   |
| Symbols      | ★                                   |                                     | ★   | ★  | ⊙   |



**PULSE LIFETIME RATINGS - 5mm**

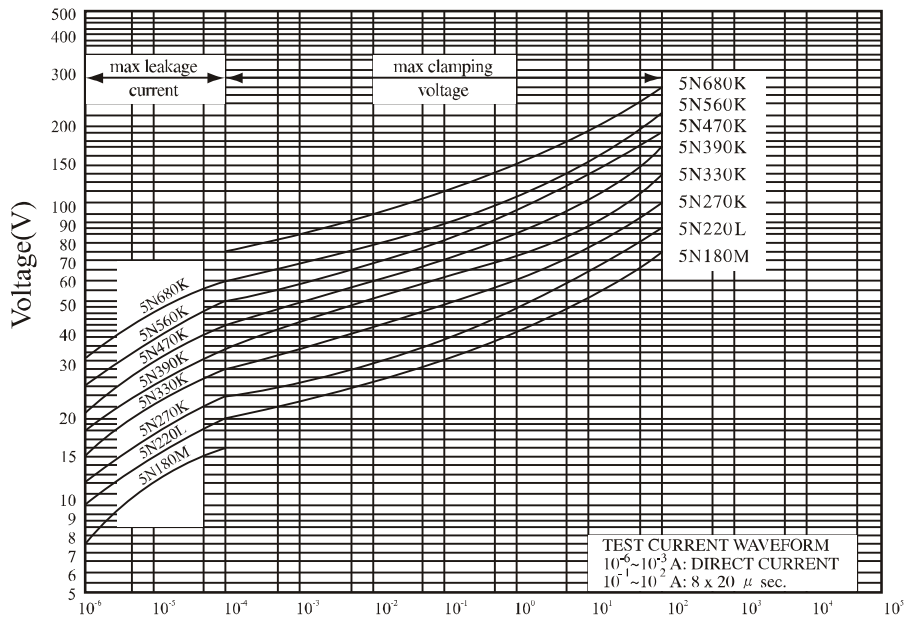
**5N180M~680K**



Rectangular Wave (  $\mu$  sec.)

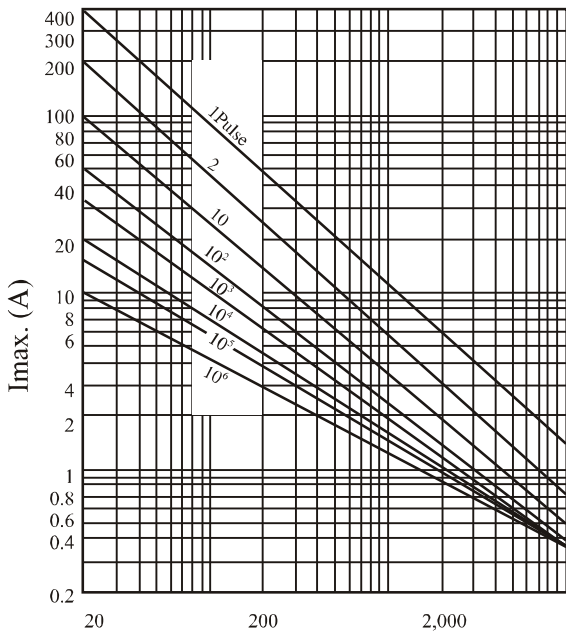
**V-I CHARACTERISTIC CURVE - 5mm**

**5N180M~680K**



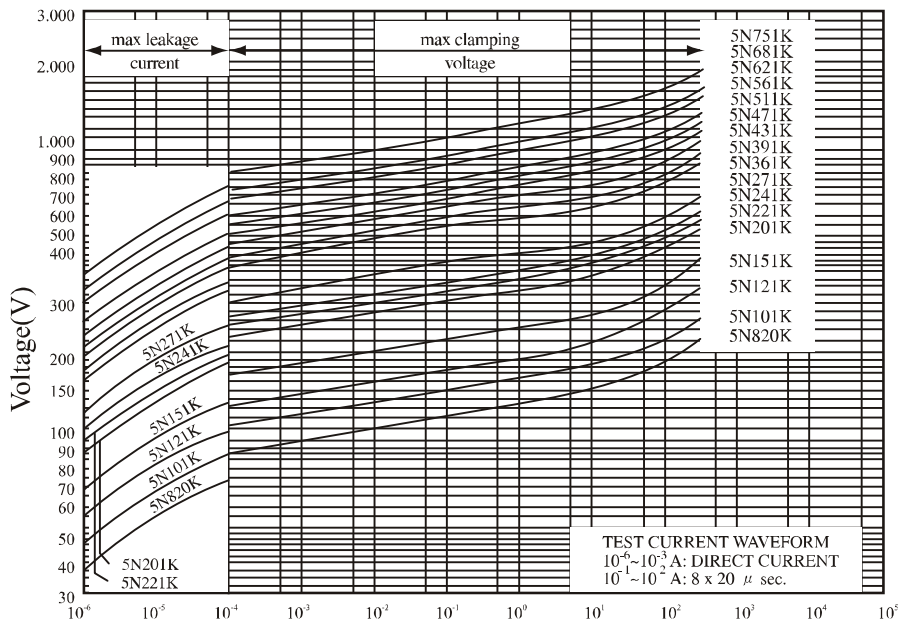
Current(A)

**5N820K~751K**



Rectangular Wave (  $\mu$  sec.)

**5N820K~751K**



Current(A)



RATING AND CHARACTERISTICS

Standard Varistors - 7mm

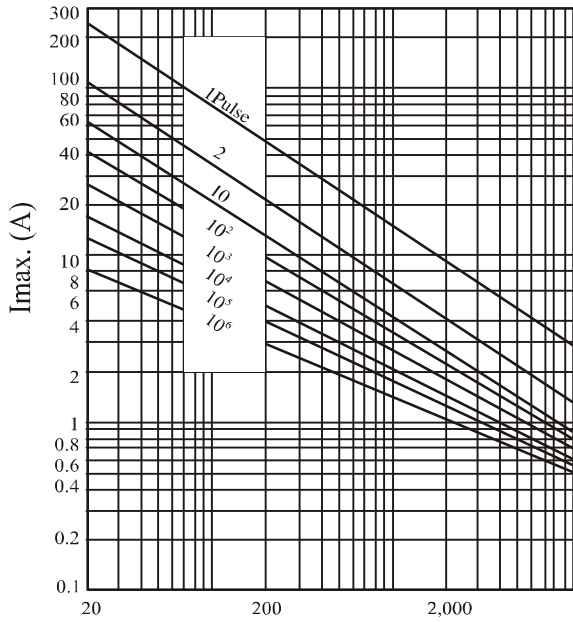
| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT07N180M65□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 2.5    | 250                                 | 0.2                                | 0.02          | 1.2                | ☆ ☆ ☆                       |
| JVT07N220L65□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 1.4                | ☆ ☆ ☆                       |
| JVT07N270K65□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 1.7                | ☆ ☆ ☆                       |
| JVT07N330K65□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 2.2                | ☆ ☆ ☆                       |
| JVT07N390K65□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 2.4                | ☆ ☆ ☆                       |
| JVT07N470K65□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 3.0                | ☆ ☆ ☆                       |
| JVT07N560K65□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 3.5                | ☆ ☆ ☆                       |
| JVT07N680K65□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 4.3                | ☆ ☆ ☆                       |
| JVT07N820K65□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 5.5                | ☆ ☆ ☆                       |
| JVT07N101K65□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 7.0                | ☆ ☆ ☆                       |
| JVT07N121K65□△△ | 120                      |           | 75                        | 100    | 200                      | 8.0    | ☆ ☆ ☆                               |                                    |               |                    |                             |
| JVT07N151K65□△△ | 150                      |           | 95                        | 125    | 250                      | 11.0   | ☆ ☆ ☆                               |                                    |               |                    |                             |
| JVT07N181K65□△△ | 180                      | 115       | 150                       | 300    | 13.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N201K65□△△ | 200                      | 130       | 170                       | 340    | 14.3                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N221K65□△△ | 220                      | 140       | 180                       | 360    | 15.5                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N241K65□△△ | 240                      | 150       | 200                       | 395    | 16.8                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N271K65□△△ | 270                      | 175       | 225                       | 455    | 19.8                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N301K65□△△ | 300                      | 195       | 250                       | 505    | 21.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N331K65□△△ | 330                      | 210       | 275                       | 550    | 23.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N361K65□△△ | 360                      | 230       | 300                       | 595    | 26.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N391K65□△△ | 390                      | 250       | 320                       | 650    | 30.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N431K65□△△ | 430                      | 275       | 350                       | 710    | 33.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N471K65□△△ | 470                      | 300       | 385                       | 775    | 35.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N511K65□△△ | 510                      | 320       | 418                       | 842    | 37.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N561K65□△△ | 560                      | 350       | 460                       | 920    | 39.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N621K65□△△ | 620                      | 385       | 505                       | 1025   | 41.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N681K65□△△ | 680                      | 420       | 560                       | 1120   | 43.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N751K65□△△ | 750                      | 460       | 615                       | 1240   | 45.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N781k65□△△ | 780                      | 485       | 640                       | 1290   | 46.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |
| JVT07N821k65□△△ | 820                      | 510       | 670                       | 1355   | 47.0                     | ☆ ☆ ☆  |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style (Y = Vertical Kink , P = Straight )

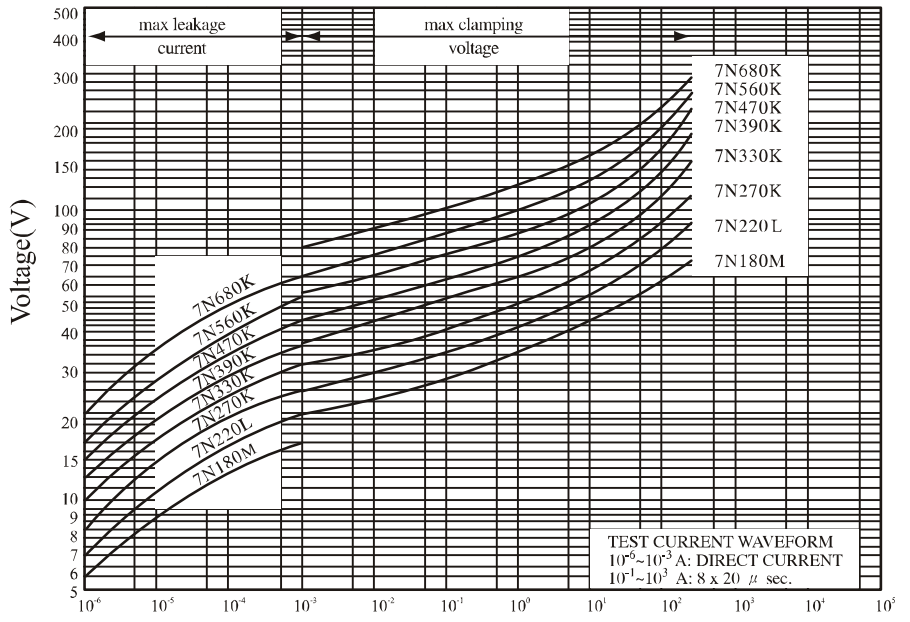
△ △ : Lead Length & Packing

**PULSE LIFETIME RATINGS -7mm**  
**7N180M~680K**



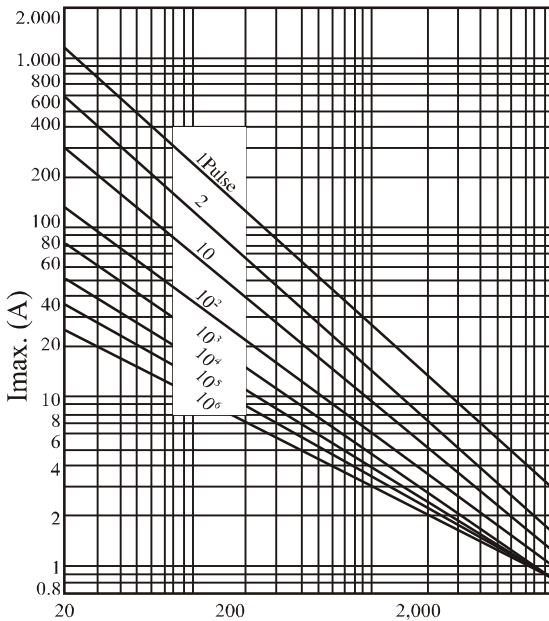
Rectangular Wave ( $\mu$  sec.)

**V-I CHARACTERISTIC CURVE -7mm**  
**7N180M~680K**



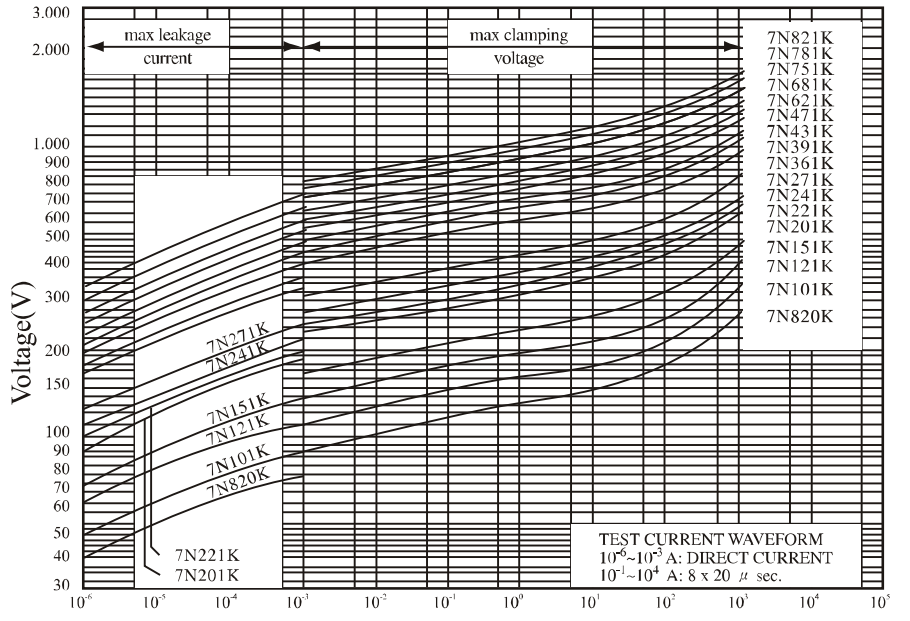
Current(A)

**7N820K~821K**



Rectangular Wave ( $\mu$  sec.)

**7N820K~821K**



Current(A)



RATING AND CHARACTERISTICS

Standard Varistors - 10mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC CCC               |
| JVT10N180M87□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 5      | 500                                 | 0.3                                | 0.05          | 2.4                | ☆ ★ ☆                       |
| JVT10N220L87□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 2.7                | ☆ ★ ☆                       |
| JVT10N270K87□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 3.5                | ☆ ★ ☆                       |
| JVT10N330K87□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 4.4                | ☆ ★ ☆                       |
| JVT10N390K87□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 4.7                | ☆ ★ ☆                       |
| JVT10N470K87□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 6.0                | ☆ ★ ☆                       |
| JVT10N560K87□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 7.0                | ☆ ★ ☆                       |
| JVT10N680K87□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 8.5                | ☆ ★ ☆                       |
| JVT10N820K87□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 11.0               | ☆ ★ ☆                       |
| JVT10N101K87□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 14.0               | ☆ ★ ☆                       |
| JVT10N121K87□△△ | 120                      |           | 75                        | 100    | 200                      |        |                                     |                                    |               | 16.0               | ☆ ★ ☆                       |
| JVT10N151K87□△△ | 150                      |           | 95                        | 125    | 250                      |        |                                     |                                    |               | 22.0               | ☆ ★ ☆                       |
| JVT10N181K87□△△ | 180                      | 115       | 150                       | 300    | 26.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT10N201K87□△△ | 200                      | 130       | 170                       | 340    | 28.5                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT10N221K87□△△ | 220                      | 140       | 180                       | 360    | 31.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT10N241K87□△△ | 240                      | 150       | 200                       | 395    | 33.5                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT10N271K87□△△ | 270                      | 175       | 225                       | 455    | 39.5                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N301K87□△△ | 300                      | ±10%      | 195                       | 250    | 505                      | 42.0   | ☆ ★ ☆                               |                                    |               |                    |                             |
| JVT10N331K87□△△ | 330                      | 210       | 275                       | 550    | 46.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N361K87□△△ | 360                      | 230       | 300                       | 595    | 52.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N391K87□△△ | 390                      | 250       | 320                       | 650    | 60.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N431K87□△△ | 430                      | 275       | 350                       | 710    | 66.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N471K87□△△ | 470                      | 300       | 385                       | 775    | 70.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N511K87□△△ | 510                      | 320       | 418                       | 842    | 74.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N561K87□△△ | 560                      | 350       | 460                       | 920    | 78.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N621K87□△△ | 620                      | 385       | 505                       | 1025   | 82.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N681K87□△△ | 680                      | 420       | 560                       | 1120   | 86.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N751K87□△△ | 750                      | 460       | 615                       | 1240   | 90.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N781K87□△△ | 780                      | 485       | 640                       | 1290   | 92.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N821K87□△△ | 820                      | 510       | 670                       | 1355   | 94.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N911K87□△△ | 910                      | 550       | 745                       | 1500   | 102.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N102K87□△△ | 1000                     | 625       | 825                       | 1650   | 112.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10N112K87□△△ | 1100                     | 680       | 895                       | 1815   | 124.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

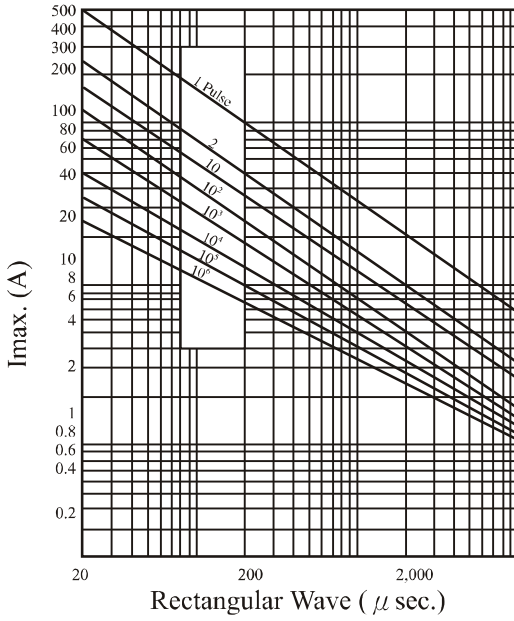
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing



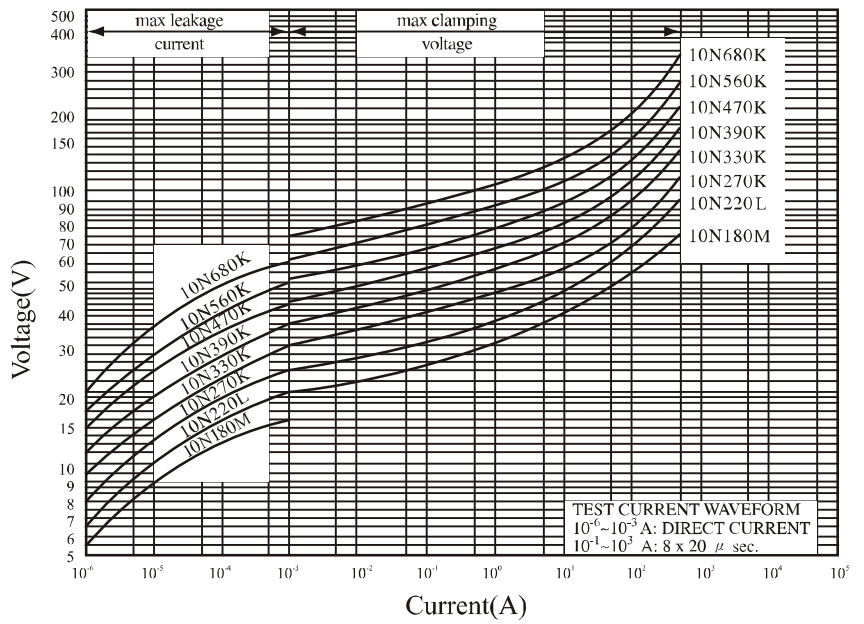
**PULSE LIFETIME RATINGS - 10mm**

**10N180M~680K**

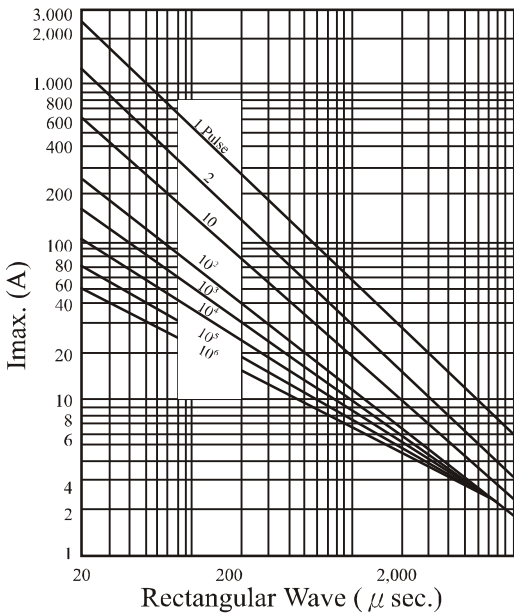


**V-I CHARACTERISTIC CURVE - 10mm**

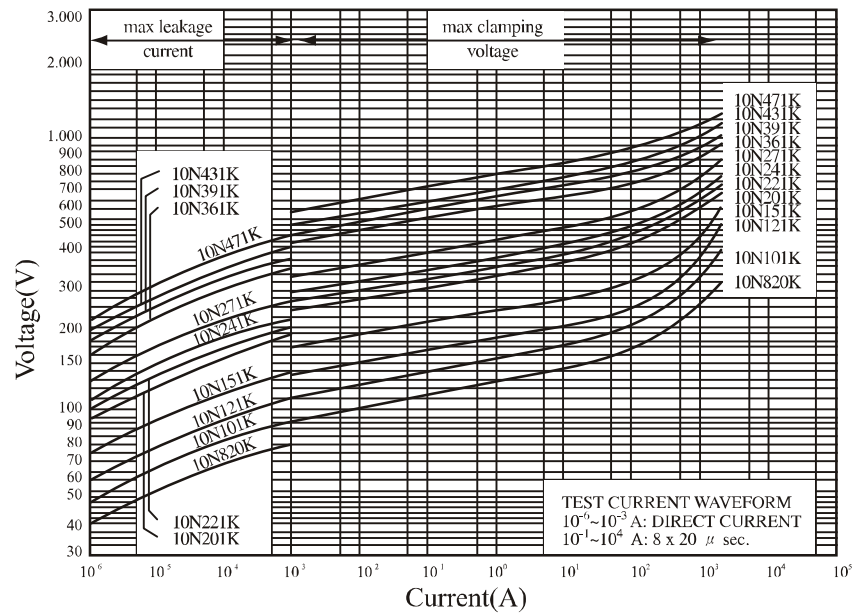
**10N180M~680K**



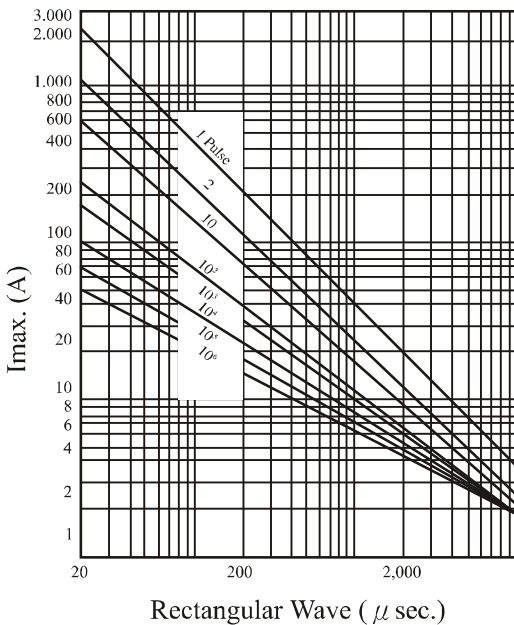
**10N820K~471K**



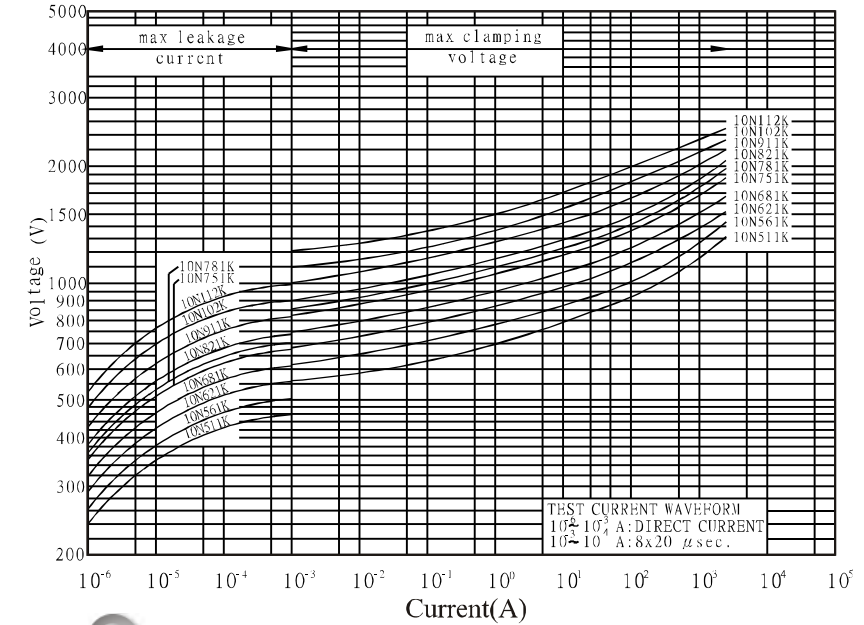
**10N820K~471K**



**10N511K~112K**



**10N511K~112K**





RATING AND CHARACTERISTICS

Standard Varistors - 14mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC CCC               |
| JVT14N180M87□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 10     | 1000                                | 1                                  | 0.1           | 4.7                | ☆ ★ ☆                       |
| JVT14N220L87□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 5.4                | ☆ ★ ☆                       |
| JVT14N270K87□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 6.9                | ☆ ★ ☆                       |
| JVT14N330K87□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 8.8                | ☆ ★ ☆                       |
| JVT14N390K87□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 9.4                | ☆ ★ ☆                       |
| JVT14N470K87□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 12.0               | ☆ ★ ☆                       |
| JVT14N560K87□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 14.0               | ☆ ★ ☆                       |
| JVT14N680K87□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 17.0               | ☆ ★ ☆                       |
| JVT14N820K87□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 22.0               | ☆ ★ ☆                       |
| JVT14N101K87□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 28.0               | ☆ ★ ☆                       |
| JVT14N121K87□△△ | 120                      |           | 75                        | 100    | 200                      |        |                                     |                                    |               | 32.0               | ☆ ★ ☆                       |
| JVT14N151K87□△△ | 150                      |           | 95                        | 125    | 250                      |        |                                     |                                    |               | 44.0               | ☆ ★ ☆                       |
| JVT14N181K87□△△ | 180                      |           | 115                       | 150    | 300                      |        |                                     |                                    |               | 52.0               | ☆ ★ ☆                       |
| JVT14N201K87□△△ | 200                      |           | 130                       | 170    | 340                      |        |                                     |                                    |               | 57.0               | ☆ ★ ☆                       |
| JVT14N221K87□△△ | 220                      |           | 140                       | 180    | 360                      |        |                                     |                                    |               | 62.0               | ☆ ★ ☆                       |
| JVT14N241K87□△△ | 240                      |           | 150                       | 200    | 395                      |        |                                     |                                    |               | 67.0               | ☆ ★ ☆                       |
| JVT14N271K87□△△ | 270                      |           | 175                       | 225    | 455                      | 79.0   | ☆ ★ ☆                               |                                    |               |                    |                             |
| JVT14N301K87□△△ | 300                      |           | 195                       | 250    | 505                      | 84.0   | ☆ ★ ☆                               |                                    |               |                    |                             |
| JVT14N331K87□△△ | 330                      | 210       | 275                       | 550    | 92.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N361K87□△△ | 360                      | 230       | 300                       | 595    | 104.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N391K87□△△ | 390                      | 250       | 320                       | 650    | 120.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N431K87□△△ | 430                      | 275       | 350                       | 710    | 132.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N471K87□△△ | 470                      | 300       | 385                       | 775    | 140.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N511K87□△△ | 510                      | 320       | 418                       | 842    | 148.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N561K87□△△ | 560                      | 350       | 460                       | 920    | 156.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N621K87□△△ | 620                      | 385       | 505                       | 1025   | 164.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N681K87□△△ | 680                      | 420       | 560                       | 1120   | 172.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N751K87□△△ | 750                      | 460       | 615                       | 1240   | 180.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N781K87□△△ | 780                      | 485       | 640                       | 1290   | 184.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N821K87□△△ | 820                      | 510       | 670                       | 1355   | 188.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N911K87□△△ | 910                      | 550       | 745                       | 1500   | 204.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N102K87□△△ | 1000                     | 625       | 825                       | 1650   | 224.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14N112K87□△△ | 1100                     | 680       | 895                       | 1815   | 248.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
|                 |                          |           |                           |        |                          | 50     | 4500                                | 3                                  | 0.6           |                    | ☆ ★ ☆                       |

※ JVT = Silicone Coating & Operating Temperature 125 C°

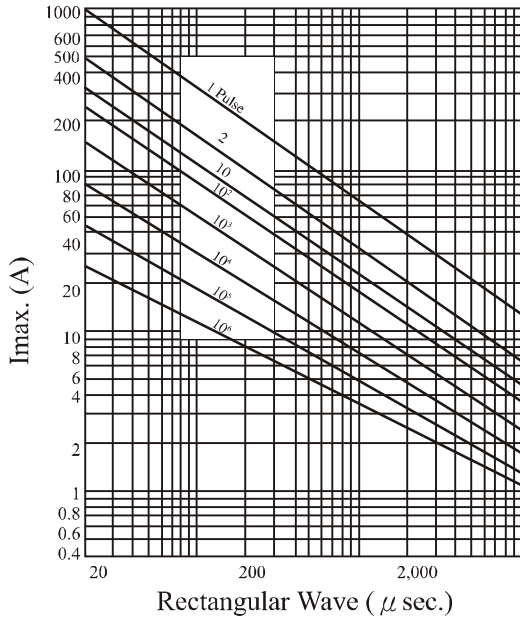
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing



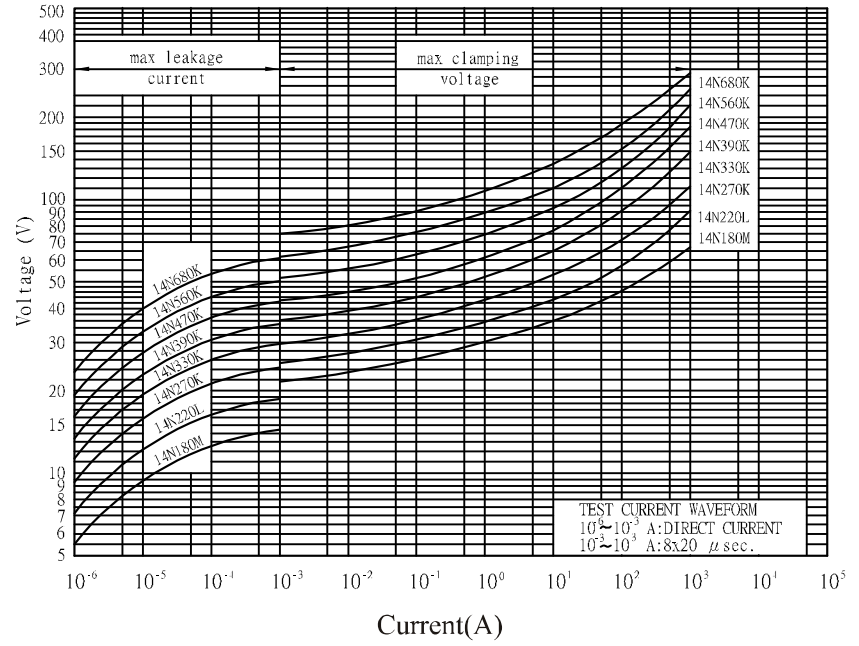
**PULSE LIFETIME RATINGS - 14mm**

**14N180M~680K**

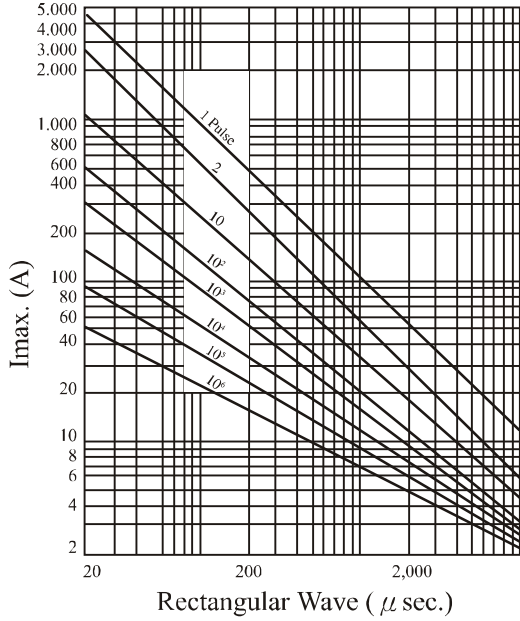


**V-I CHARACTERISTIC CURVE - 14mm**

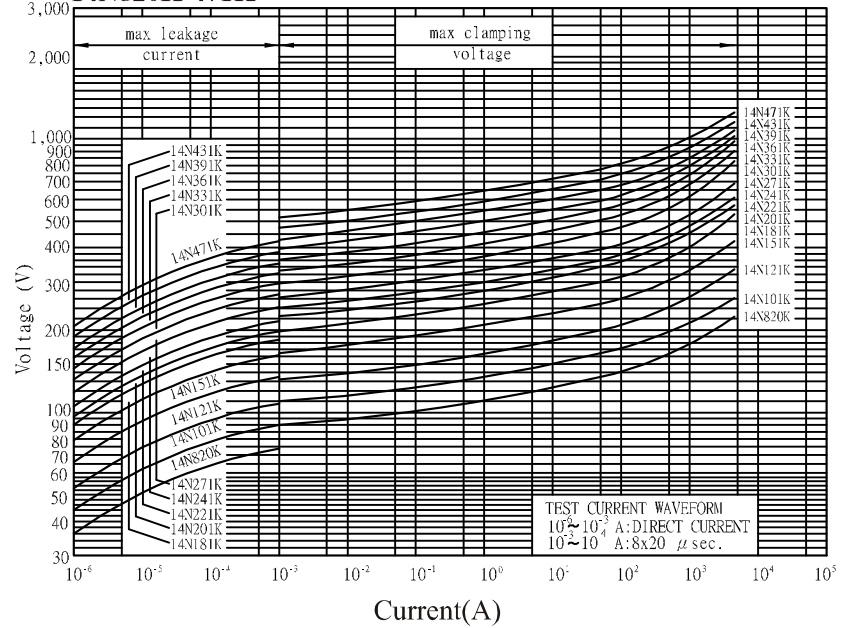
**14N180M-680K**



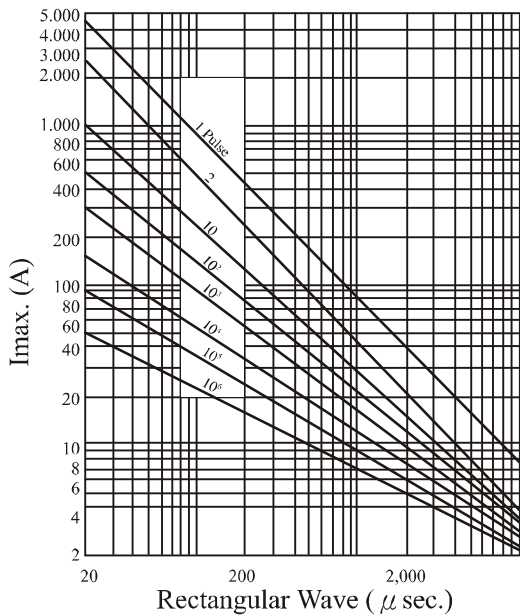
**14N820K~471K**



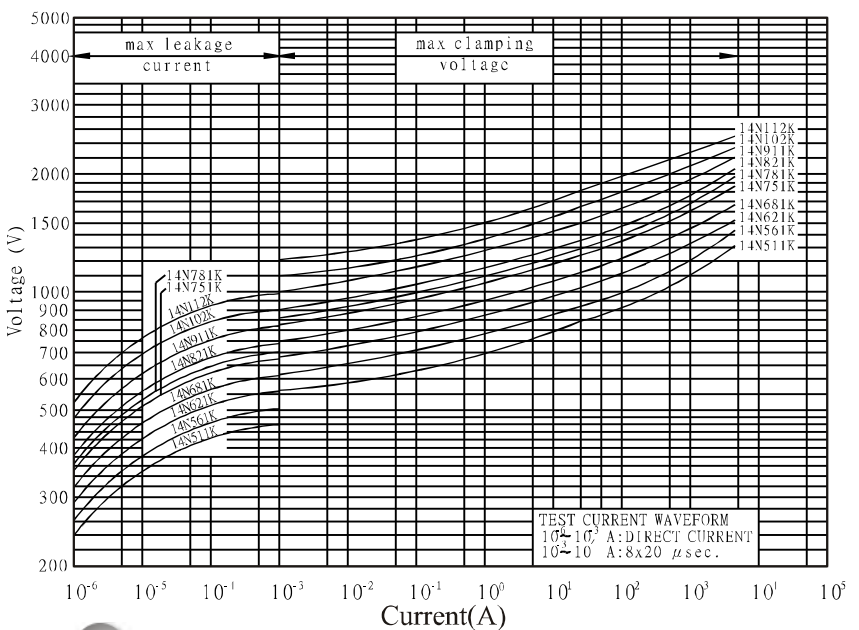
**14N820K-471K**



**14N511K~182K**



**14N511K~112K**







RATING AND CHARACTERISTICS

Standard Varistors - 20mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC CQC               |
| JVT20N220M11□△△ | 22                       | ±20%      | 14                        | 18     | 43                       | 20     | 2000                                | 2                                  | 0.2           | 8.0                | ☆ ★ ☆                       |
| JVT20N270M11□△△ | 27                       |           | 17                        | 22     | 53                       |        |                                     |                                    |               | 10.0               | ☆ ★ ☆                       |
| JVT20N330M11□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 12.0               | ☆ ★ ☆                       |
| JVT20N390L11□△△ | 39                       | ±15%      | 25                        | 31     | 77                       | 100    | 6500                                | 4                                  | 1.0           | 14.0               | ☆ ★ ☆                       |
| JVT20N470L11□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 17.0               | ☆ ★ ☆                       |
| JVT20N560L11□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 20.0               | ☆ ★ ☆                       |
| JVT20N680L11□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 24.0               | ☆ ★ ☆                       |
| JVT20N820L11□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 44.0               | ☆ ★ ☆                       |
| JVT20N101K11□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 56.0               | ☆ ★ ☆                       |
| JVT20N121K11□△△ | 120                      | 75        | 100                       | 200    | 64.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N151K11□△△ | 150                      | 95        | 125                       | 250    | 88.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N181K11□△△ | 180                      | 115       | 150                       | 300    | 104.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N201K11□△△ | 200                      | 130       | 170                       | 340    | 114.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N221K11□△△ | 220                      | 140       | 180                       | 360    | 124.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N241K11□△△ | 240                      | 150       | 200                       | 395    | 134.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N271K11□△△ | 270                      | 175       | 225                       | 455    | 158.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N301K11□△△ | 300                      | 195       | 250                       | 505    | 168.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N331K11□△△ | 330                      | 210       | 275                       | 550    | 184.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N361K11□△△ | 360                      | 230       | 300                       | 595    | 208.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N391K11□△△ | 390                      | 250       | 320                       | 650    | 240.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N431K11□△△ | 430                      | 275       | 350                       | 710    | 264.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N471K11□△△ | 470                      | 300       | 385                       | 775    | 280.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N511K11□△△ | 510                      | 320       | 418                       | 842    | 296.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N561K11□△△ | 560                      | 350       | 460                       | 920    | 312.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N621K11□△△ | 620                      | 385       | 505                       | 1025   | 328.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N681K11□△△ | 680                      | 420       | 560                       | 1120   | 344.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N751K11□△△ | 750                      | 460       | 615                       | 1240   | 360.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N781K11□△△ | 780                      | 485       | 640                       | 1290   | 368.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N821K11□△△ | 820                      | 510       | 670                       | 1355   | 376.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N911K11□△△ | 910                      | 550       | 745                       | 1500   | 408.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N102K11□△△ | 1000                     | 625       | 825                       | 1650   | 448.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20N112K11□△△ | 1100                     | 680       | 895                       | 1815   | 496.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |

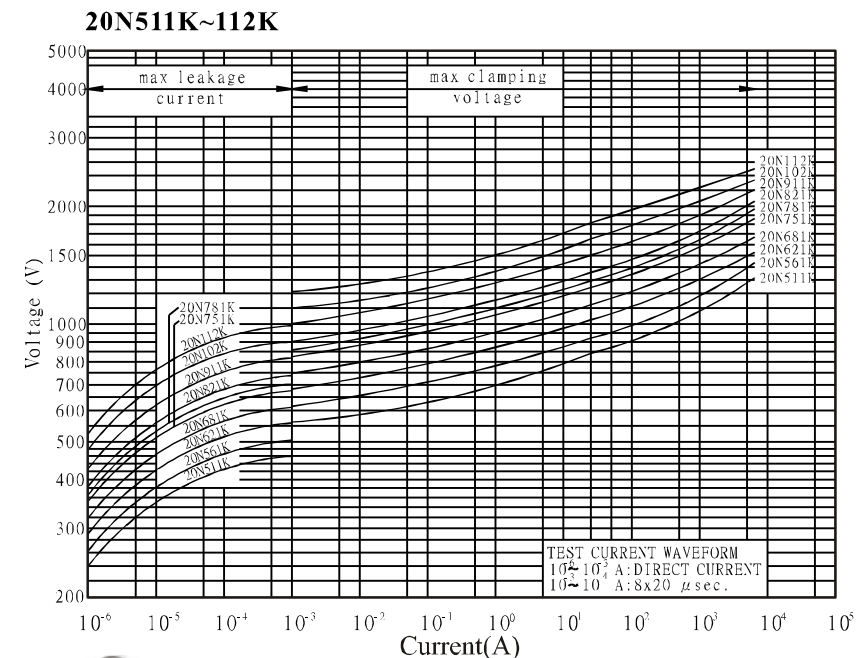
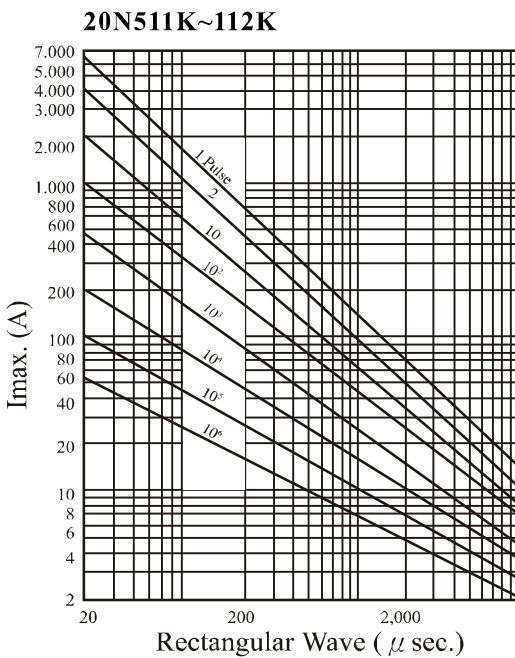
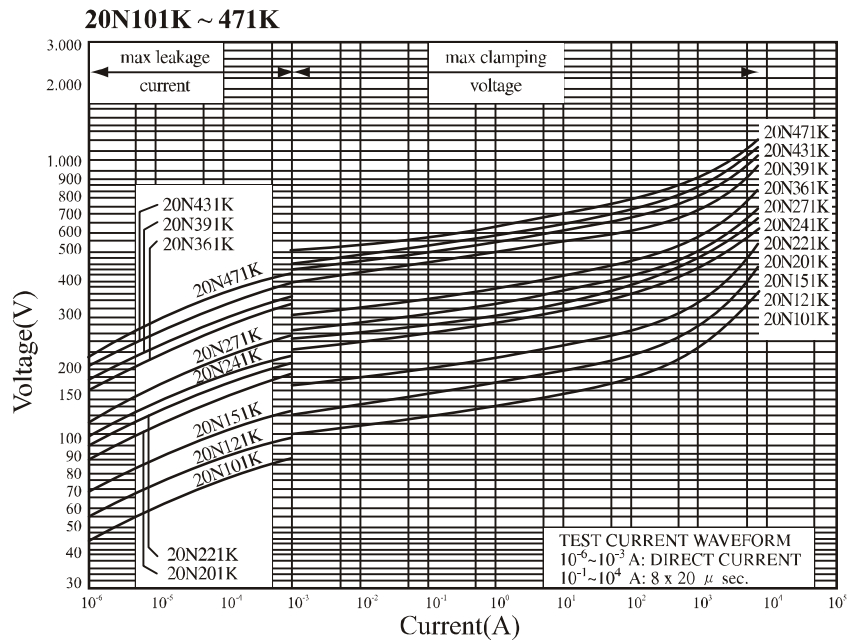
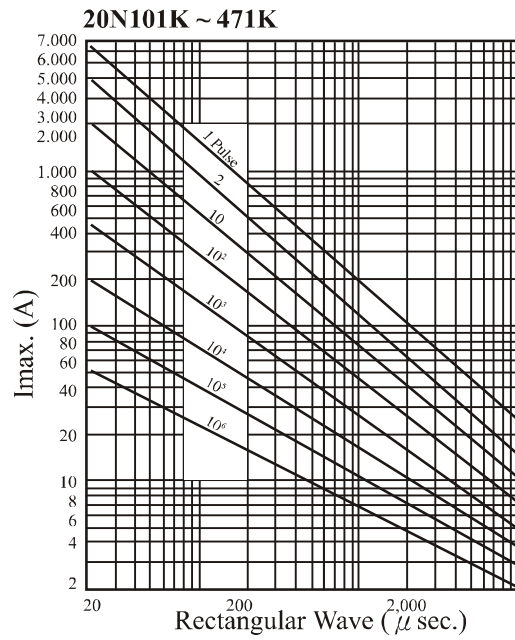
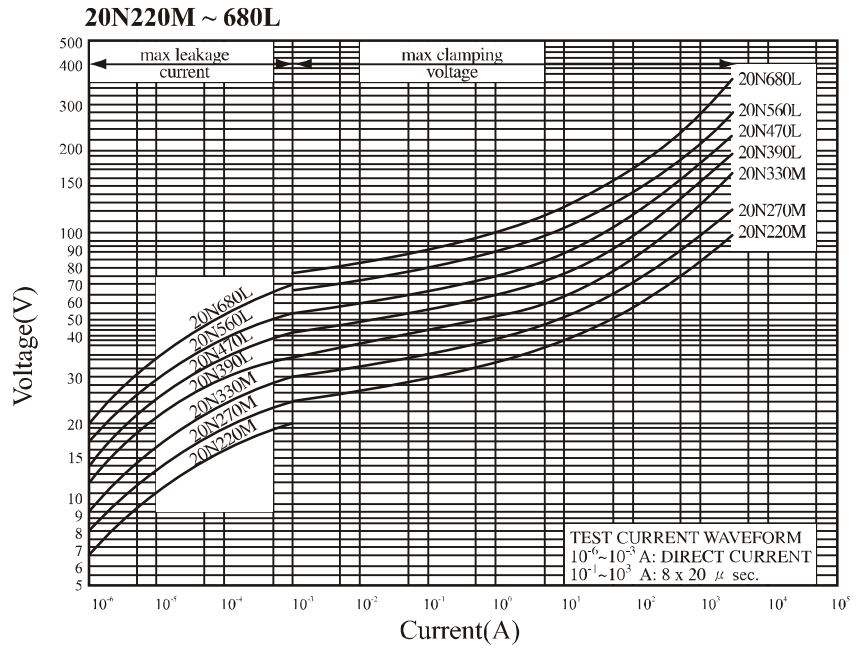
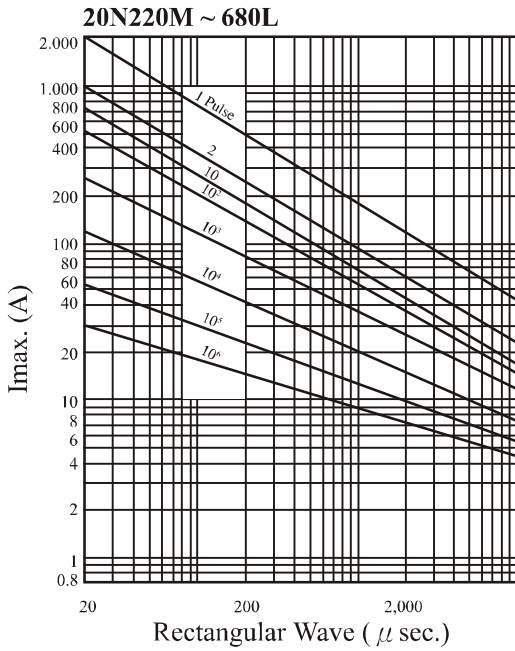
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing

**PULSE LIFETIME RATINGS - 20mm**

**V-I CHARACTERISTIC CURVE - 20mm**





RATING AND CHARACTERISTICS

Standard Varistors - 25mm

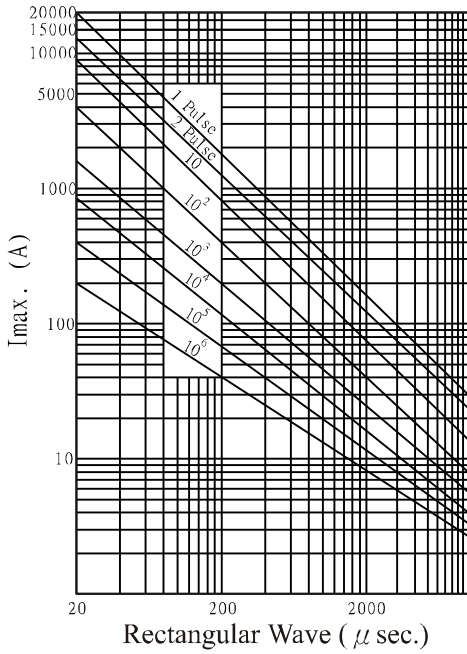
| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC CQC               |
| JVT25N201K11□△△ | 200                      | ±10%      | 130                       | 170    | 355                      | 150    | 18000                               | 5                                  | 1.2           | 190                | ☆ ★                         |
| JVT25N221K11□△△ | 220                      |           | 140                       | 180    | 380                      |        |                                     |                                    |               | 205                | ☆ ★                         |
| JVT25N241K11□△△ | 240                      |           | 150                       | 200    | 415                      |        |                                     |                                    |               | 225                | ☆ ★                         |
| JVT25N271K11□△△ | 270                      |           | 175                       | 225    | 445                      |        |                                     |                                    |               | 255                | ☆ ★                         |
| JVT25N301K11□△△ | 300                      |           | 195                       | 250    | 495                      |        |                                     |                                    |               | 280                | ☆ ★                         |
| JVT25N331K11□△△ | 330                      |           | 210                       | 275    | 545                      |        |                                     |                                    |               | 305                | ☆ ★                         |
| JVT25N361K11□△△ | 360                      |           | 230                       | 300    | 595                      |        |                                     |                                    |               | 330                | ☆ ★                         |
| JVT25N391K11□△△ | 390                      |           | 250                       | 320    | 645                      |        |                                     |                                    |               | 360                | ☆ ★                         |
| JVT25N431K11□△△ | 430                      |           | 275                       | 350    | 710                      |        |                                     |                                    |               | 380                | ☆ ★                         |
| JVT25N471K11□△△ | 470                      |           | 300                       | 385    | 775                      |        |                                     |                                    |               | 400                | ☆ ★                         |
| JVT25N511K11□△△ | 510                      |           | 320                       | 418    | 840                      |        |                                     |                                    |               | 420                | ☆ ★                         |
| JVT25N561K11□△△ | 560                      |           | 350                       | 460    | 925                      |        |                                     |                                    |               | 440                | ☆ ★                         |
| JVT25N621K11□△△ | 620                      |           | 385                       | 505    | 1025                     |        |                                     |                                    |               | 460                | ☆ ★                         |
| JVT25N681K11□△△ | 680                      |           | 420                       | 560    | 1125                     |        |                                     |                                    |               | 480                | ☆ ★                         |
| JVT25N751K11□△△ | 750                      |           | 460                       | 615    | 1240                     |        |                                     |                                    |               | 520                | ☆ ★                         |
| JVT25N781K11□△△ | 780                      |           | 485                       | 640    | 1290                     |        |                                     |                                    |               | 540                | ☆ ★                         |
| JVT25N821K11□△△ | 820                      |           | 510                       | 670    | 1360                     |        |                                     |                                    |               | 570                | ☆ ★                         |
| JVT25N911K11□△△ | 910                      |           | 550                       | 745    | 1500                     |        |                                     |                                    |               | 620                | ☆ ★                         |

※ JVT = Silicone Coating & Operating Temperature 125 C°

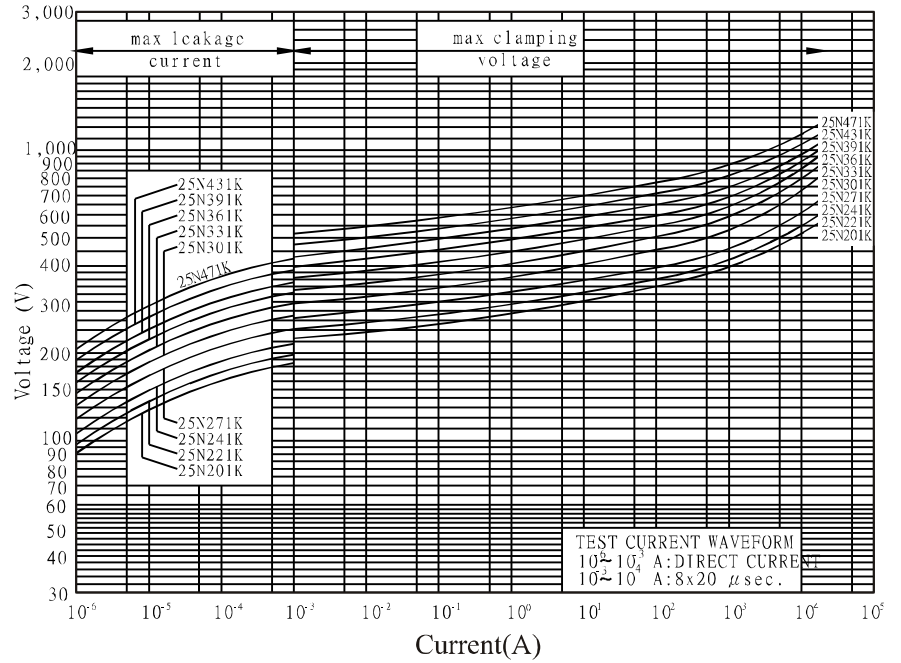
□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing

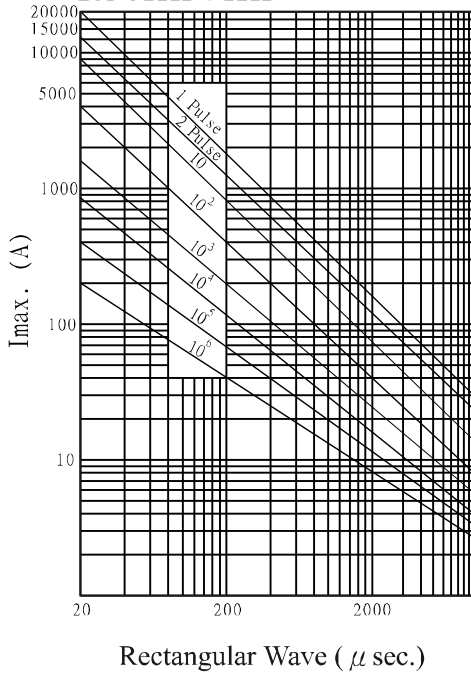
**PULSE LIFETIME RATINGS-25mm**  
**25N201K-471K**



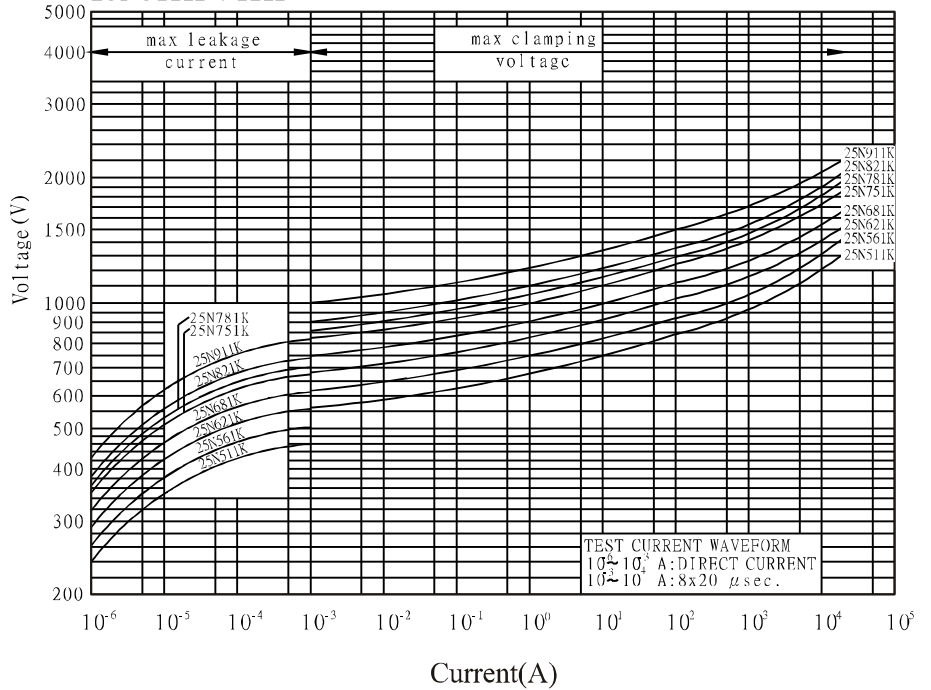
**V-I CHARACTERISTIC CURVE -25mm**  
**25N201K-471K**



**25N511K~911K**



**25N511K~911K**





RATING AND CHARACTERISTICS

High Surge Varistors - 5mm

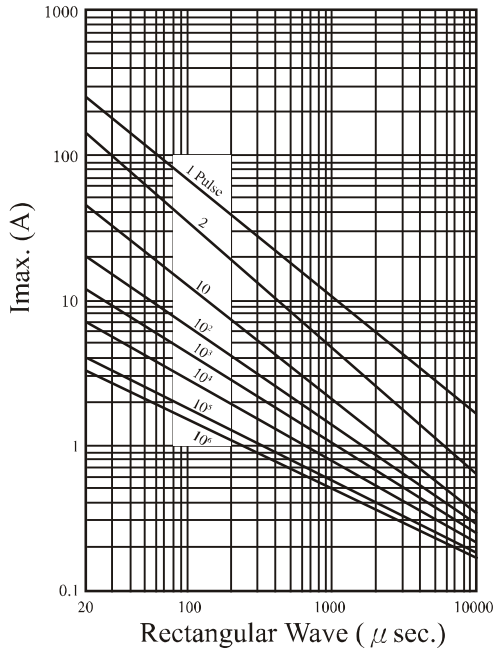
| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT05S180M65□△△ | 18                       | ±20%      | 11                        | 14     | 40                       | 1      | 250                                 | 0.1                                | 0.01          | 0.7                | ☆★☆☆                        |
| JVT05S220L65□△△ | 22                       | ±15%      | 14                        | 18     | 48                       |        |                                     |                                    |               | 0.8                | ☆★☆☆                        |
| JVT05S270K65□△△ | 27                       | ±10%      | 17                        | 22     | 60                       |        |                                     |                                    |               | 1.1                | ☆★☆☆                        |
| JVT05S330K65□△△ | 33                       |           | 20                        | 26     | 73                       |        |                                     |                                    |               | 1.3                | ☆★☆☆                        |
| JVT05S390K65□△△ | 39                       |           | 25                        | 31     | 86                       |        |                                     |                                    |               | 1.5                | ☆★☆☆                        |
| JVT05S470K65□△△ | 47                       |           | 30                        | 38     | 104                      |        |                                     |                                    |               | 1.8                | ☆★☆☆                        |
| JVT05S560K65□△△ | 56                       |           | 35                        | 45     | 123                      |        |                                     |                                    |               | 2.2                | ☆★☆☆                        |
| JVT05S680K65□△△ | 68                       |           | 40                        | 56     | 150                      |        |                                     |                                    |               | 2.6                | ☆★☆☆                        |
| JVT05S820K65□△△ | 82                       |           | 50                        | 65     | 145                      |        |                                     |                                    |               | 3.5                | ☆★☆☆                        |
| JVT05S101K65□△△ | 100                      |           | 60                        | 85     | 175                      |        |                                     |                                    |               | 4.5                | ☆★☆☆                        |
| JVT05S121K65□△△ | 120                      |           | 75                        | 100    | 210                      |        |                                     |                                    |               | 5.5                | ☆★☆☆                        |
| JVT05S151K65□△△ | 150                      |           | 95                        | 125    | 260                      |        |                                     |                                    |               | 6.5                | ☆★☆☆                        |
| JVT05S181K65□△△ | 180                      |           | 115                       | 150    | 320                      |        |                                     |                                    |               | 8.0                | ☆★☆☆                        |
| JVT05S201K65□△△ | 200                      |           | 130                       | 170    | 355                      |        |                                     |                                    |               | 8.5                | ☆★☆☆                        |
| JVT05S221K65□△△ | 220                      |           | 140                       | 180    | 380                      |        |                                     |                                    |               | 9.0                | ☆★☆☆                        |
| JVT05S241K65□△△ | 240                      |           | 150                       | 200    | 415                      |        |                                     |                                    |               | 10.5               | ☆★☆☆                        |
| JVT05S271K65□△△ | 270                      |           | 175                       | 225    | 475                      |        |                                     |                                    |               | 11.0               | ☆★☆☆                        |
| JVT05S301K65□△△ | 300                      |           | 195                       | 250    | 525                      | 12.0   | ☆★☆☆                                |                                    |               |                    |                             |
| JVT05S331K65□△△ | 330                      |           | 210                       | 275    | 575                      | 13.0   | ☆★☆☆                                |                                    |               |                    |                             |
| JVT05S361K65□△△ | 360                      | 230       | 300                       | 620    | 16.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S391K65□△△ | 390                      | 250       | 320                       | 675    | 17.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S431K65□△△ | 430                      | 275       | 350                       | 745    | 20.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S471K65□△△ | 470                      | 300       | 385                       | 810    | 21.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S511K65□△△ | 510                      | 320       | 418                       | 880    | 22.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S561K65□△△ | 560                      | 350       | 460                       | 940    | 25.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S621K65□△△ | 620                      | 385       | 505                       | 1050   | 27.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S681K65□△△ | 680                      | 420       | 560                       | 1150   | 28.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT05S751K65□△△ | 750                      | 460       | 615                       | 1290   | 29.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

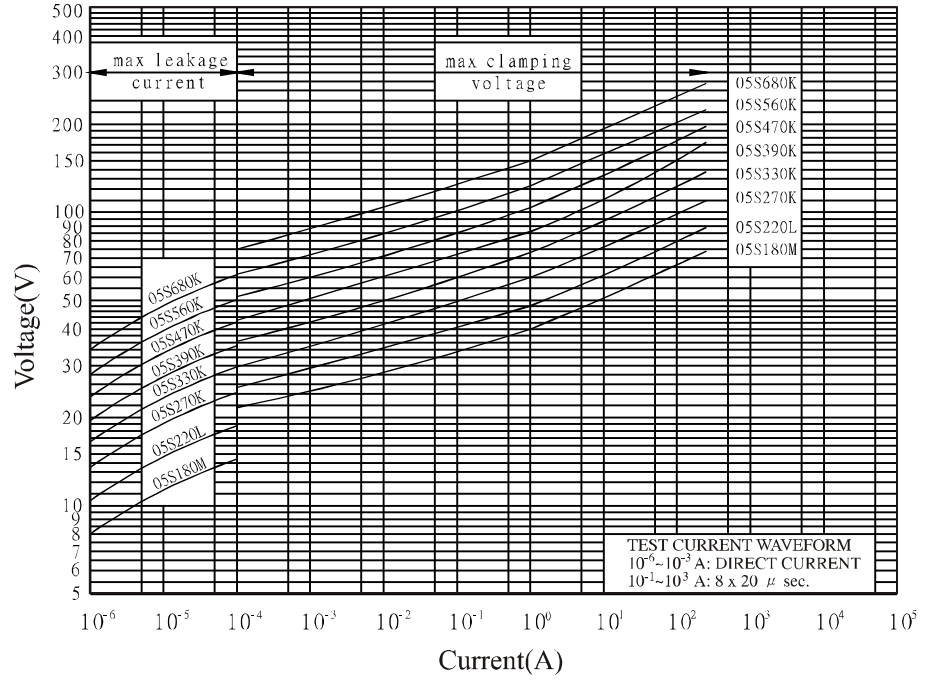
□ : Lead Style (Y = Vertical Kink , P = Straight)

△△ : Lead Length & Packing

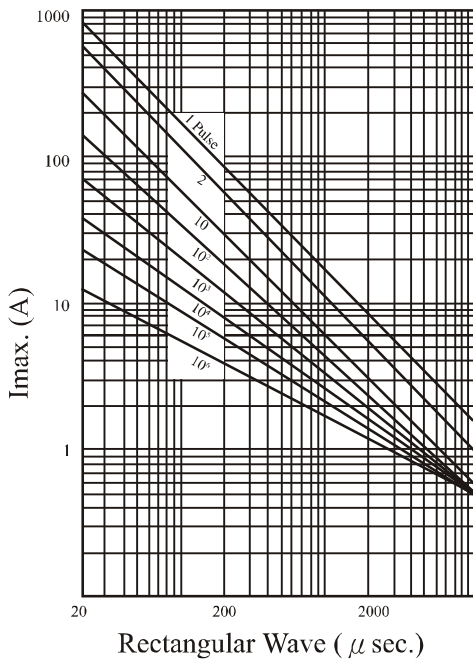
**PULSE LIFETIME RATINGS - 5mm**  
**5S180M~680K**



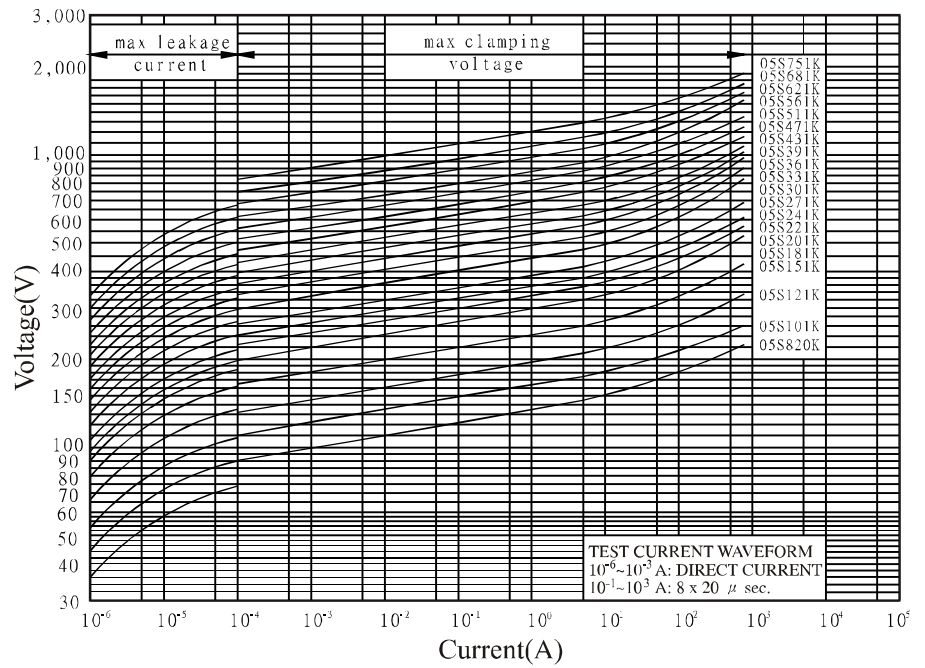
**V-I CHARACTERISTIC CURVE - 5mm**  
**5S180M~680K**



**5S820K~751K**



**5S820K~751K**





RATING AND CHARACTERISTICS

High Surge Varistors - 7mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT07S180M65□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 2.5    | 500                                 | 0.2                                | 0.02          | 1.5                | ☆★☆☆                        |
| JVT07S220L65□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 1.7                | ☆★☆☆                        |
| JVT07S270K65□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 2.1                | ☆★☆☆                        |
| JVT07S330K65□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 2.8                | ☆★☆☆                        |
| JVT07S390K65□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 3.0                | ☆★☆☆                        |
| JVT07S470K65□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 3.8                | ☆★☆☆                        |
| JVT07S560K65□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 4.4                | ☆★☆☆                        |
| JVT07S680K65□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 5.4                | ☆★☆☆                        |
| JVT07S820K65□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 7.0                | ☆★☆☆                        |
| JVT07S101K65□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 9.0                | ☆★☆☆                        |
| JVT07S121K65□△△ | 120                      |           | 75                        | 100    | 200                      | 11.0   | ☆★☆☆                                |                                    |               |                    |                             |
| JVT07S151K65□△△ | 150                      |           | 95                        | 125    | 250                      | 13.0   | ☆★☆☆                                |                                    |               |                    |                             |
| JVT07S181K65□△△ | 180                      | 115       | 150                       | 300    | 16.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S201K65□△△ | 200                      | 130       | 170                       | 340    | 17.5                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S221K65□△△ | 220                      | 140       | 180                       | 360    | 19.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S241K65□△△ | 240                      | 150       | 200                       | 395    | 21.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S271K65□△△ | 270                      | 175       | 225                       | 455    | 24.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S301K65□△△ | 300                      | 195       | 250                       | 505    | 26.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S331K65□△△ | 330                      | 210       | 275                       | 550    | 28.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S361K65□△△ | 360                      | 230       | 300                       | 595    | 32.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S391K65□△△ | 390                      | 250       | 320                       | 650    | 35.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S431K65□△△ | 430                      | 275       | 350                       | 710    | 40.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S471K65□△△ | 470                      | 300       | 385                       | 775    | 42.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S511K65□△△ | 510                      | 320       | 418                       | 842    | 45.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S561K65□△△ | 560                      | 350       | 460                       | 920    | 51.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S621K65□△△ | 620                      | 385       | 505                       | 1025   | 54.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S681K65□△△ | 680                      | 420       | 560                       | 1120   | 56.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S751K65□△△ | 750                      | 460       | 615                       | 1240   | 58.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S781k65□△△ | 780                      | 485       | 640                       | 1290   | 59.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |
| JVT07S821k65□△△ | 820                      | 510       | 670                       | 1355   | 60.0                     | ☆★☆☆   |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

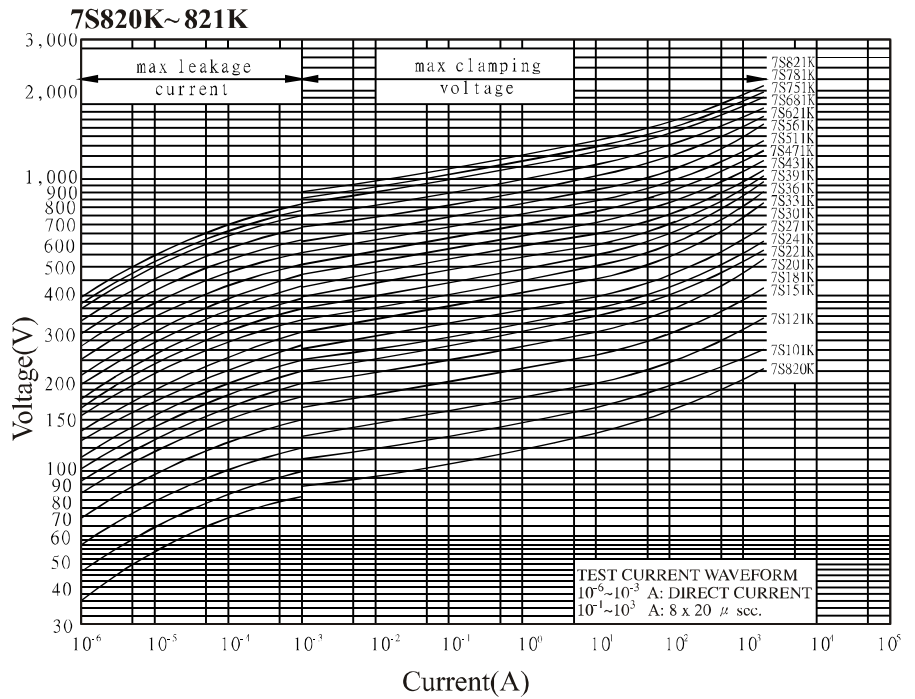
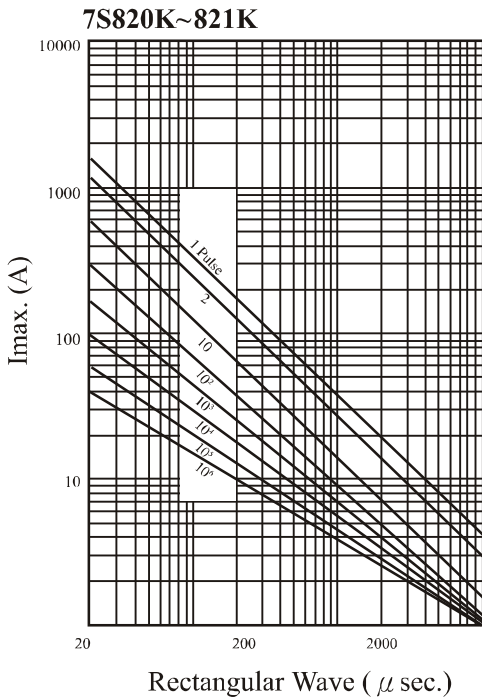
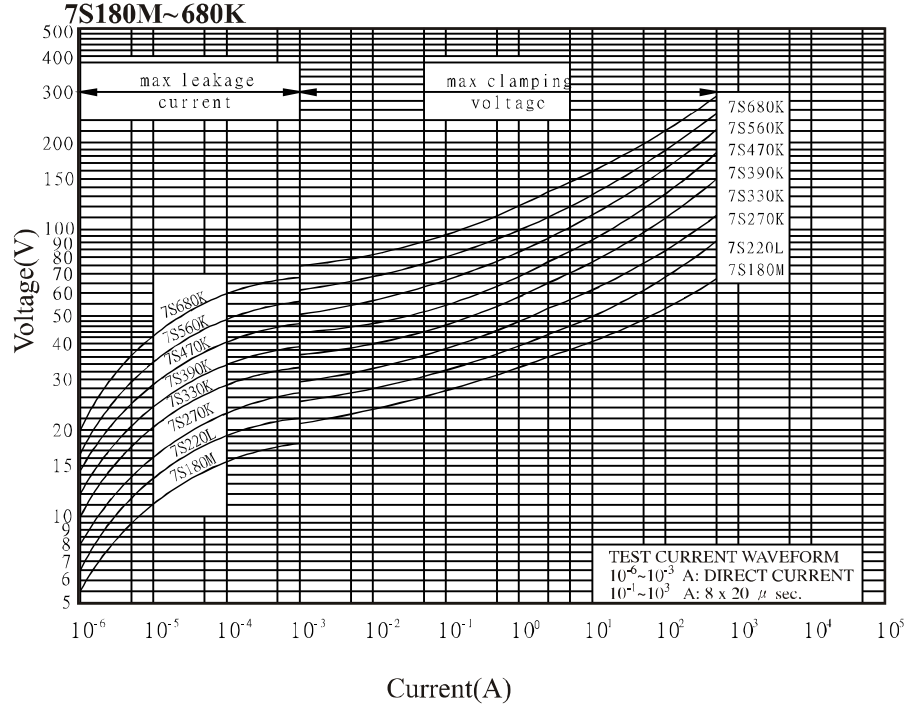
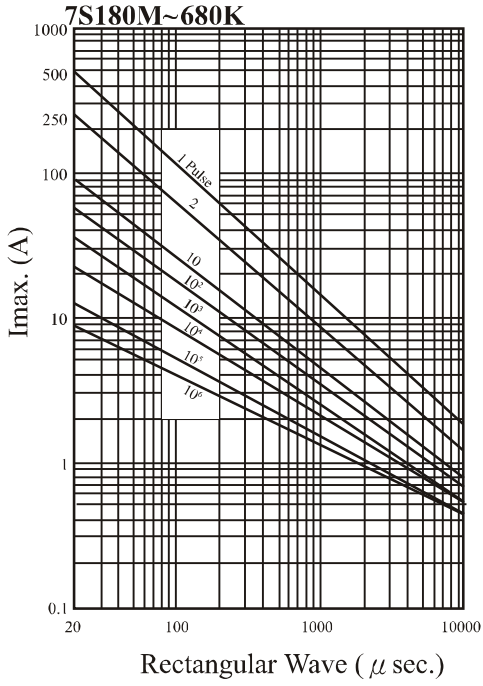
□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing



**PULSE LIFETIME RATINGS - 7mm**

**V-I CHARACTERISTIC CURVE - 7mm**







RATING AND CHARACTERISTICS

High Surge Varistors - 10mm

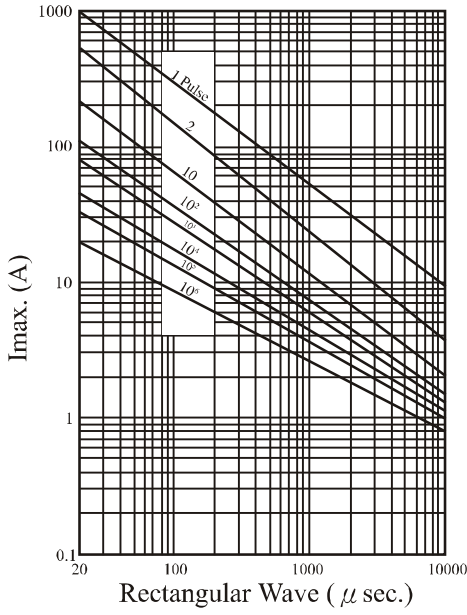
| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC ccc               |
| JVT10S180M87□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 5      | 1000                                | 0.75                               | 0.05          | 2.6                | ☆ ★ ☆                       |
| JVT10S220L87□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 3.2                | ☆ ★ ☆                       |
| JVT10S270K87□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 3.9                | ☆ ★ ☆                       |
| JVT10S330K87□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 4.8                | ☆ ★ ☆                       |
| JVT10S390K87□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 5.6                | ☆ ★ ☆                       |
| JVT10S470K87□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 6.8                | ☆ ★ ☆                       |
| JVT10S560K87□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 8.1                | ☆ ★ ☆                       |
| JVT10S680K87□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 9.8                | ☆ ★ ☆                       |
| JVT10S820K87□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 14.0               | ☆ ★ ☆                       |
| JVT10S101K87□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 18.0               | ☆ ★ ☆                       |
| JVT10S121K87□△△ | 120                      |           | 75                        | 100    | 200                      |        |                                     |                                    |               | 22.0               | ☆ ★ ☆                       |
| JVT10S151K87□△△ | 150                      |           | 95                        | 125    | 250                      |        |                                     |                                    |               | 25.0               | ☆ ★ ☆                       |
| JVT10S181K87□△△ | 180                      |           | 115                       | 150    | 300                      |        |                                     |                                    |               | 32.0               | ☆ ★ ☆                       |
| JVT10S201K87□△△ | 200                      |           | 130                       | 170    | 340                      |        |                                     |                                    |               | 35.0               | ☆ ★ ☆                       |
| JVT10S221K87□△△ | 220                      |           | 140                       | 180    | 360                      |        |                                     |                                    |               | 39.0               | ☆ ★ ☆                       |
| JVT10S241K87□△△ | 240                      |           | 150                       | 200    | 395                      |        |                                     |                                    |               | 42.0               | ☆ ★ ☆                       |
| JVT10S271K87□△△ | 270                      |           | 175                       | 225    | 455                      |        |                                     |                                    |               | 49.0               | ☆ ★ ☆                       |
| JVT10S301K87□△△ | 300                      |           | 195                       | 250    | 505                      | 52.0   | ☆ ★ ☆                               |                                    |               |                    |                             |
| JVT10S331K87□△△ | 330                      |           | 210                       | 275    | 550                      | 58.0   | ☆ ★ ☆                               |                                    |               |                    |                             |
| JVT10S361K87□△△ | 360                      | 230       | 300                       | 595    | 65.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S391K87□△△ | 390                      | 250       | 320                       | 650    | 70.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S431K87□△△ | 430                      | 275       | 350                       | 710    | 80.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S471K87□△△ | 470                      | 300       | 385                       | 775    | 85.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S511K87□△△ | 510                      | 320       | 418                       | 842    | 92.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S561K87□△△ | 560                      | 350       | 460                       | 920    | 102.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S621K87□△△ | 620                      | 385       | 505                       | 1025   | 107.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S681K87□△△ | 680                      | 420       | 560                       | 1120   | 112.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S751K87□△△ | 750                      | 460       | 615                       | 1240   | 115.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S781K87□△△ | 780                      | 485       | 640                       | 1290   | 116.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S821K87□△△ | 820                      | 510       | 670                       | 1355   | 118.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S911K87□△△ | 910                      | 550       | 745                       | 1500   | 127.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S102K87□△△ | 1000                     | 625       | 825                       | 1650   | 140.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT10S112K87□△△ | 1100                     | 680       | 895                       | 1815   | 155.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

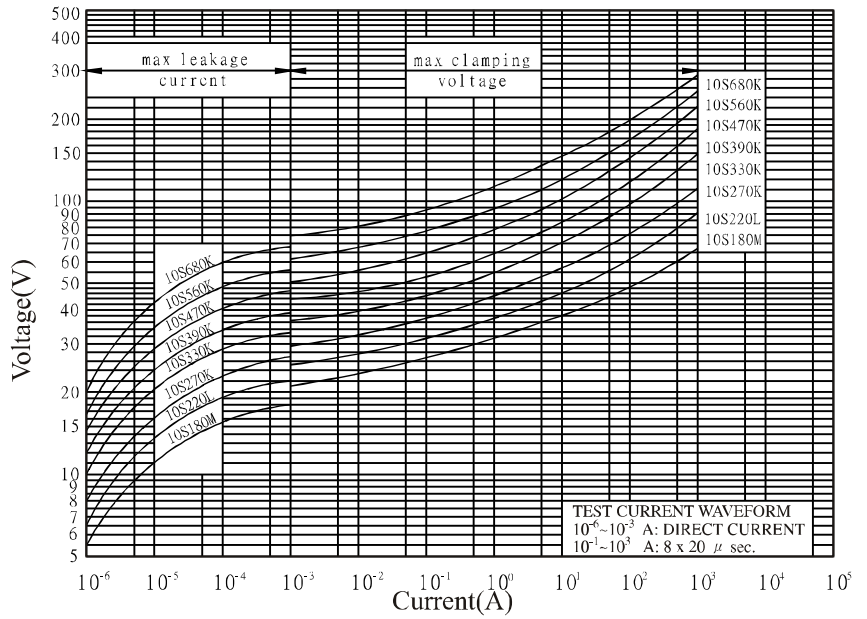
□ : Lead Style (Y = Vertical Kink , P = Straight)

△ △ : Lead Length & Packing

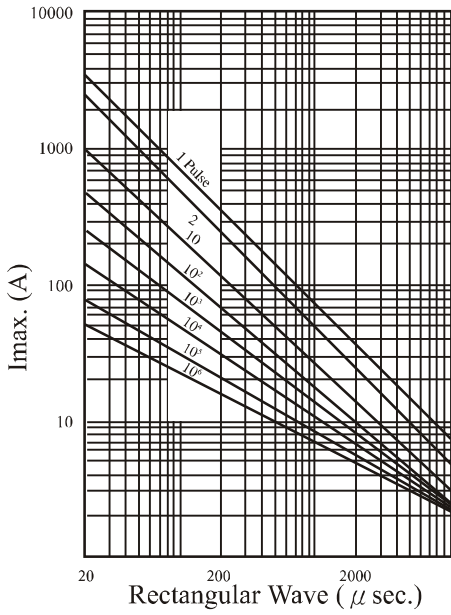
**PULSE LIFETIME RATINGS - 10mm**  
**10S180M~680K**



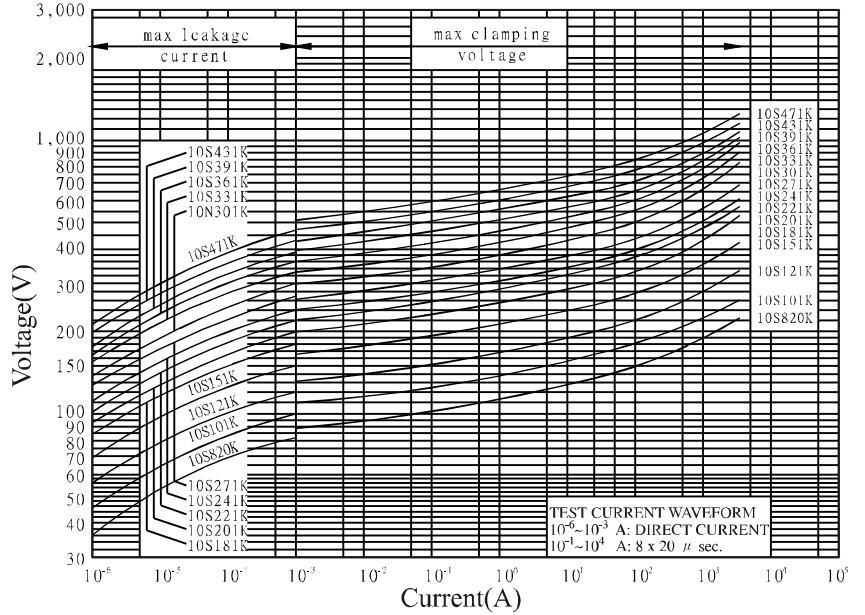
**V-I CHARACTERISTIC CURVE - 10mm**  
**10S180M~680K**



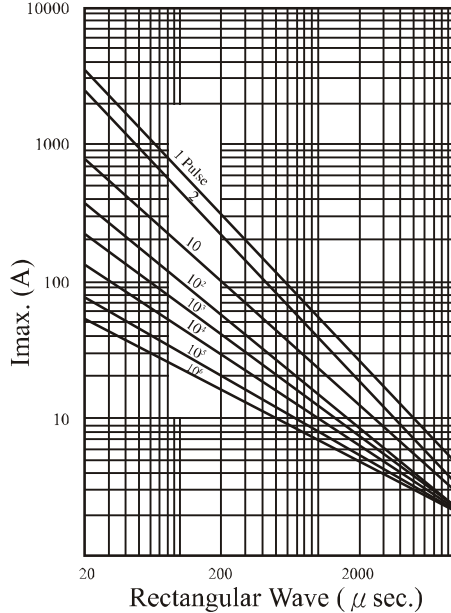
**10S820K~471K**



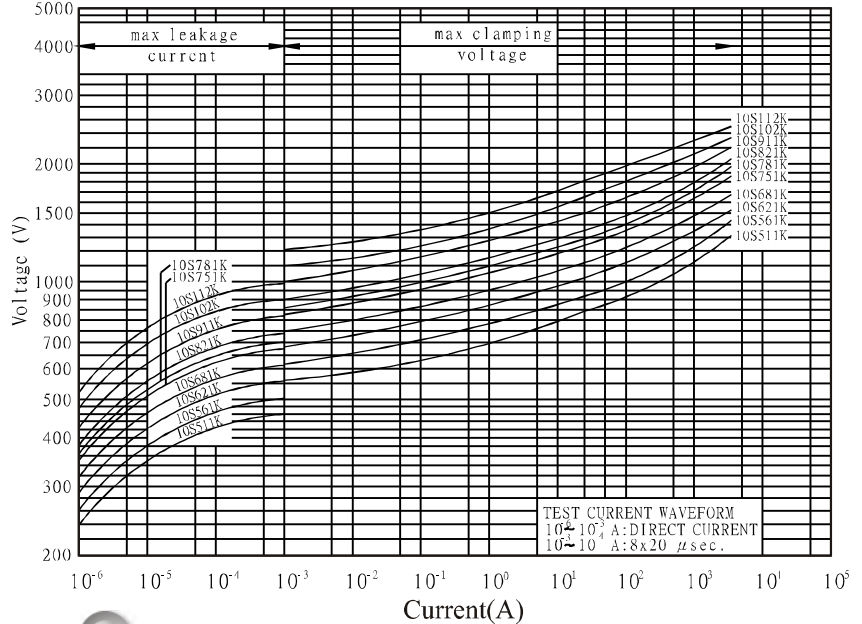
**10S820K~471K**



**10S511K~112K**



**10S511K~112K**





RATING AND CHARACTERISTICS

High Surge Varistors - 14mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT14S180M87□△△ | 18                       | ±20%      | 11                        | 14     | 36                       | 10     | 2000                                | 1                                  | 0.1           | 5.2                | ☆ ★ ☆                       |
| JVT14S220L87□△△ | 22                       | ±15%      | 14                        | 18     | 43                       |        |                                     |                                    |               | 6.3                | ☆ ★ ☆                       |
| JVT14S270K87□△△ | 27                       | ±10%      | 17                        | 22     | 53                       |        |                                     |                                    |               | 7.8                | ☆ ★ ☆                       |
| JVT14S330K87□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 9.5                | ☆ ★ ☆                       |
| JVT14S390K87□△△ | 39                       |           | 25                        | 31     | 77                       |        |                                     |                                    |               | 11.0               | ☆ ★ ☆                       |
| JVT14S470K87□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 14.0               | ☆ ★ ☆                       |
| JVT14S560K87□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 16.0               | ☆ ★ ☆                       |
| JVT14S680K87□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 20.0               | ☆ ★ ☆                       |
| JVT14S820K87□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 28.0               | ☆ ★ ☆                       |
| JVT14S101K87□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 36.0               | ☆ ★ ☆                       |
| JVT14S121K87□△△ | 120                      |           | 75                        | 100    | 200                      |        |                                     |                                    |               | 44.0               | ☆ ★ ☆                       |
| JVT14S151K87□△△ | 150                      |           | 95                        | 125    | 250                      |        |                                     |                                    |               | 53.0               | ☆ ★ ☆                       |
| JVT14S181K87□△△ | 180                      | 115       | 150                       | 300    | 65.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT14S201K87□△△ | 200                      | 130       | 170                       | 340    | 70.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT14S221K87□△△ | 220                      | 140       | 180                       | 360    | 78.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT14S241K87□△△ | 240                      | 150       | 200                       | 395    | 84.0                     |        |                                     |                                    |               | ☆ ★ ☆              |                             |
| JVT14S271K87□△△ | 270                      | 175       | 225                       | 455    | 99.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S301K87□△△ | 300                      | 195       | 250                       | 505    | 105.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S331K87□△△ | 330                      | 210       | 275                       | 550    | 115.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S361K87□△△ | 360                      | 230       | 300                       | 595    | 130.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S391K87□△△ | 390                      | 250       | 320                       | 650    | 140.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S431K87□△△ | 430                      | 275       | 350                       | 710    | 155.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S471K87□△△ | 470                      | 300       | 385                       | 775    | 175.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S511K87□△△ | 510                      | 320       | 418                       | 842    | 190.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S561K87□△△ | 560                      | 350       | 460                       | 920    | 205.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S621K87□△△ | 620                      | 385       | 505                       | 1025   | 215.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S681K87□△△ | 680                      | 420       | 560                       | 1120   | 225.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S751K87□△△ | 750                      | 460       | 615                       | 1240   | 230.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S781K87□△△ | 780                      | 485       | 640                       | 1290   | 233.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S821K87□△△ | 820                      | 510       | 670                       | 1355   | 235.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S911K87□△△ | 910                      | 550       | 745                       | 1500   | 255.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S102K87□△△ | 1000                     | 625       | 825                       | 1650   | 283.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT14S112K87□△△ | 1100                     | 680       | 895                       | 1815   | 310.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
|                 |                          |           |                           |        |                          | 50     | 6000                                | 3                                  | 0.6           |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

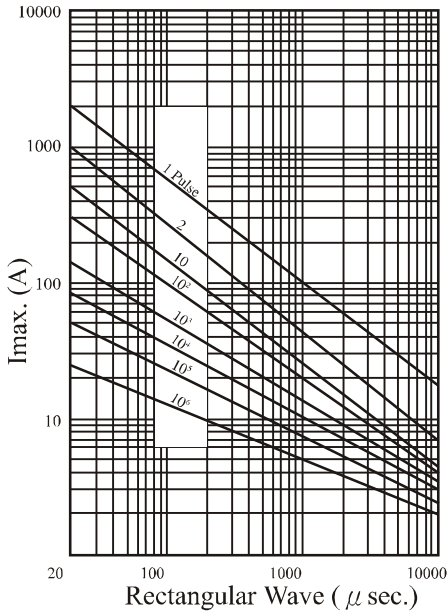
□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing



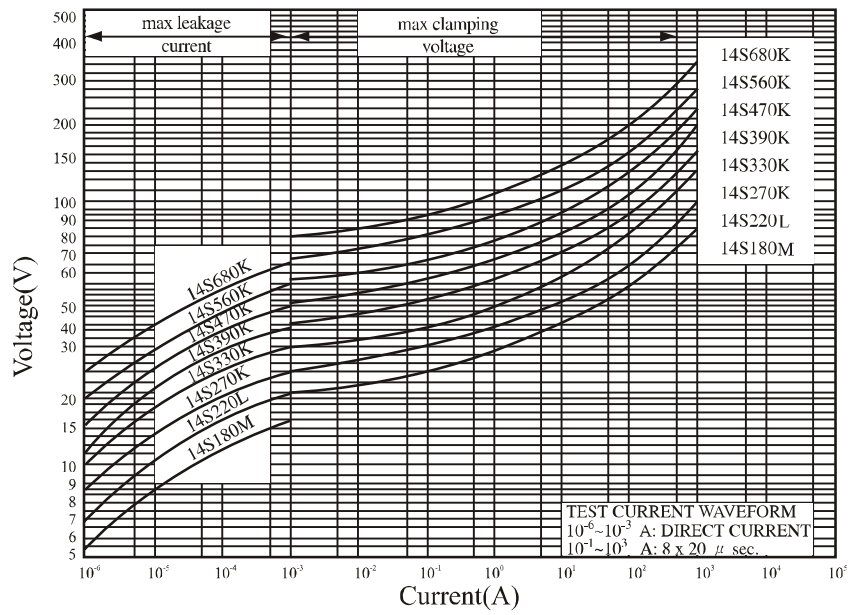
**PULSE LIFETIME RATINGS - 14mm**

**14S180M~ 680K**

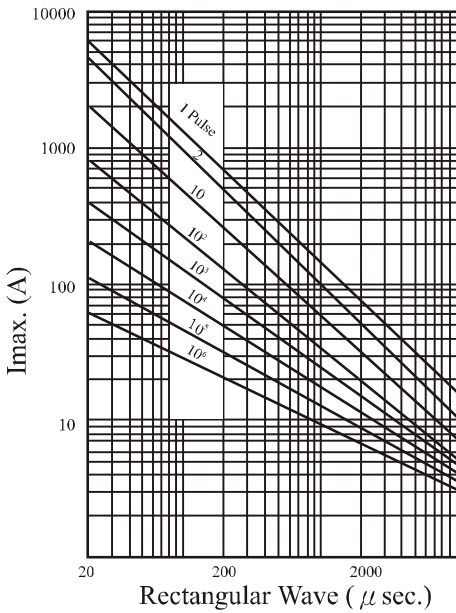


**V-I CHARACTERISTIC CURVE - 14mm**

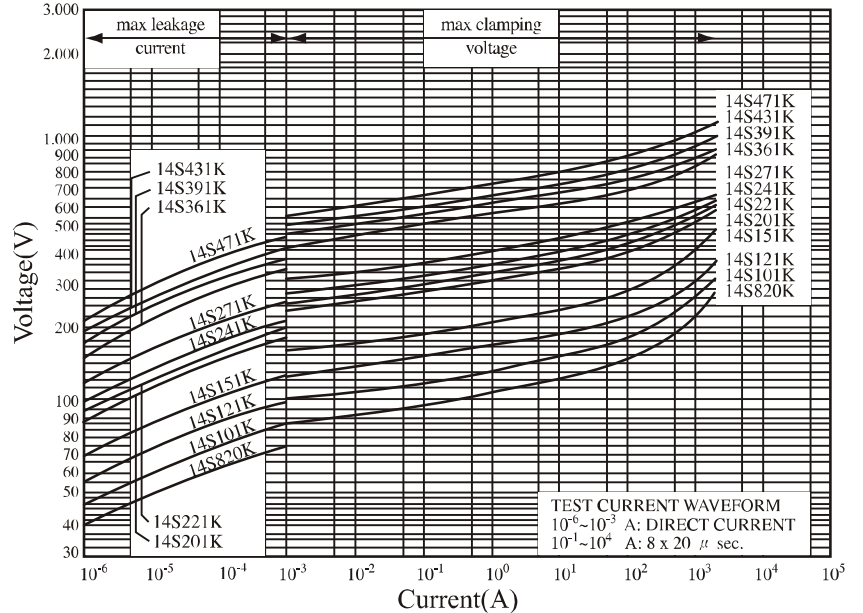
**14S180M~ 680K**



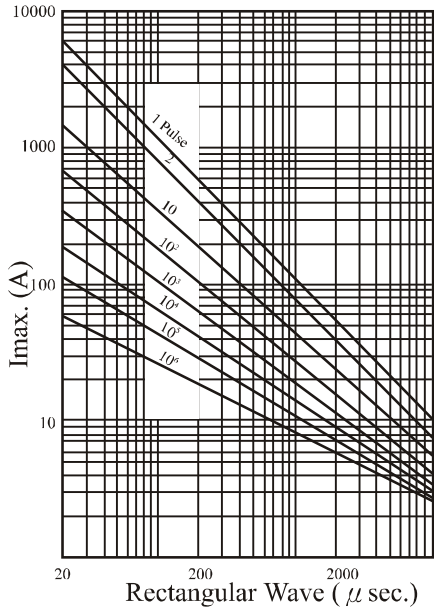
**14S820K~ 471K**



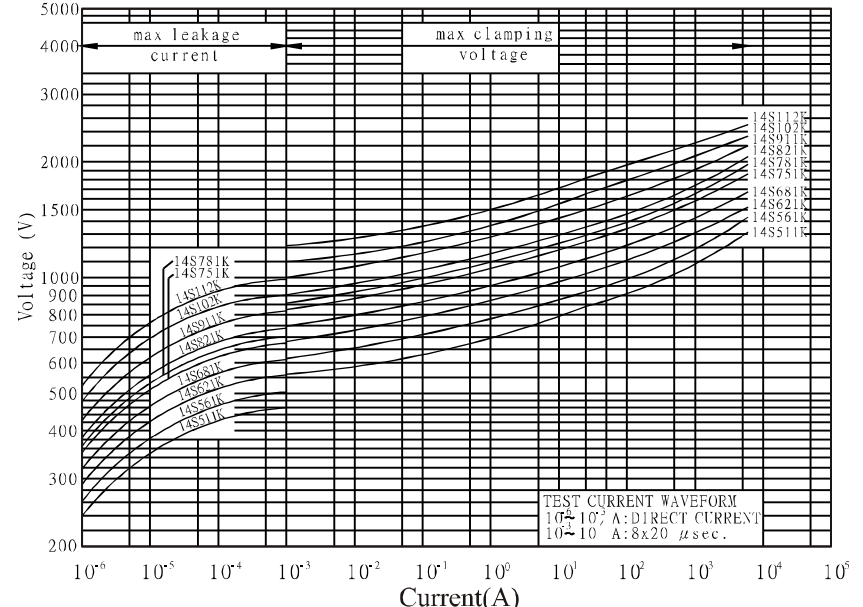
**14S820K~ 471K**



**14S511K~112K**



**14S511K~112K**





RATING AND CHARACTERISTICS

High Surge Varistors - 20mm

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                | UL us IEC CQC               |
| JVT20S220M11□△△ | 22                       | ±20%      | 14                        | 18     | 43                       | 20     | 3000                                | 2.0                                | 0.2           | 16.0               | ☆ ★ ☆                       |
| JVT20S270M11□△△ | 27                       |           | 17                        | 22     | 53                       |        |                                     |                                    |               | 19.0               | ☆ ★ ☆                       |
| JVT20S330M11□△△ | 33                       |           | 20                        | 26     | 65                       |        |                                     |                                    |               | 24.0               | ☆ ★ ☆                       |
| JVT20S390L11□△△ | 39                       | ±15%      | 25                        | 31     | 77                       | 100    | 10000                               | 4.0                                | 1.0           | 28.0               | ☆ ★ ☆                       |
| JVT20S470L11□△△ | 47                       |           | 30                        | 38     | 93                       |        |                                     |                                    |               | 34.0               | ☆ ★ ☆                       |
| JVT20S560L11□△△ | 56                       |           | 35                        | 45     | 110                      |        |                                     |                                    |               | 41.0               | ☆ ★ ☆                       |
| JVT20S680L11□△△ | 68                       |           | 40                        | 56     | 135                      |        |                                     |                                    |               | 49.0               | ☆ ★ ☆                       |
| JVT20S820L11□△△ | 82                       |           | 50                        | 65     | 135                      |        |                                     |                                    |               | 56.0               | ☆ ★ ☆                       |
| JVT20S101K11□△△ | 100                      |           | 60                        | 85     | 165                      |        |                                     |                                    |               | 72.0               | ☆ ★ ☆                       |
| JVT20S121K11□△△ | 120                      | 75        | 100                       | 200    | 88.0                     | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S151K11□△△ | 150                      | 95        | 125                       | 250    | 106.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S181K11□△△ | 180                      | 115       | 150                       | 300    | 130.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S201K11□△△ | 200                      | 130       | 170                       | 340    | 140.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S221K11□△△ | 220                      | 140       | 180                       | 360    | 155.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S241K11□△△ | 240                      | 150       | 200                       | 395    | 168.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S271K11□△△ | 270                      | 175       | 225                       | 455    | 190.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S301K11□△△ | 300                      | 195       | 250                       | 505    | 210.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S331K11□△△ | 330                      | 210       | 275                       | 550    | 228.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S361K11□△△ | 360                      | 230       | 300                       | 595    | 255.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S391K11□△△ | 390                      | 250       | 320                       | 650    | 275.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S431K11□△△ | 430                      | 275       | 350                       | 710    | 303.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S471K11□△△ | 470                      | 300       | 385                       | 775    | 350.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S511K11□△△ | 510                      | 320       | 418                       | 842    | 382.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S561K11□△△ | 560                      | 350       | 460                       | 920    | 410.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S621K11□△△ | 620                      | 385       | 505                       | 1025   | 420.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S681K11□△△ | 680                      | 420       | 560                       | 1120   | 430.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S751K11□△△ | 750                      | 460       | 615                       | 1240   | 440.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S781K11□△△ | 780                      | 485       | 640                       | 1290   | 450.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S821K11□△△ | 820                      | 510       | 670                       | 1355   | 460.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S911K11□△△ | 910                      | 550       | 745                       | 1500   | 510.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S102K11□△△ | 1000                     | 625       | 825                       | 1650   | 566.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |
| JVT20S112K11□△△ | 1100                     | 680       | 895                       | 1815   | 620.0                    | ☆ ★ ☆  |                                     |                                    |               |                    |                             |

※ JVT = Silicone Coating & Operating Temperature 125 C°

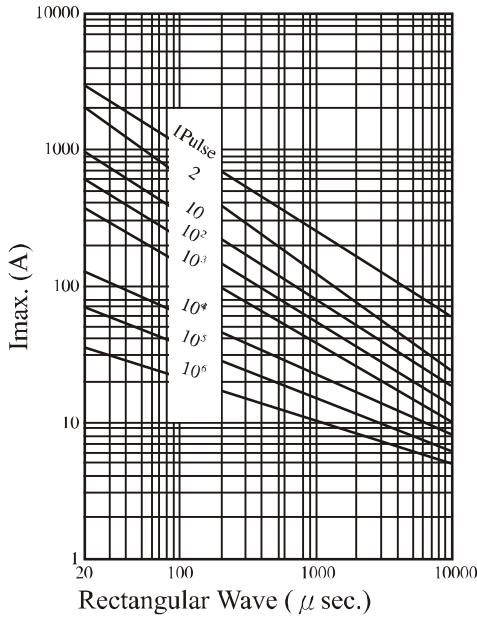
□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing



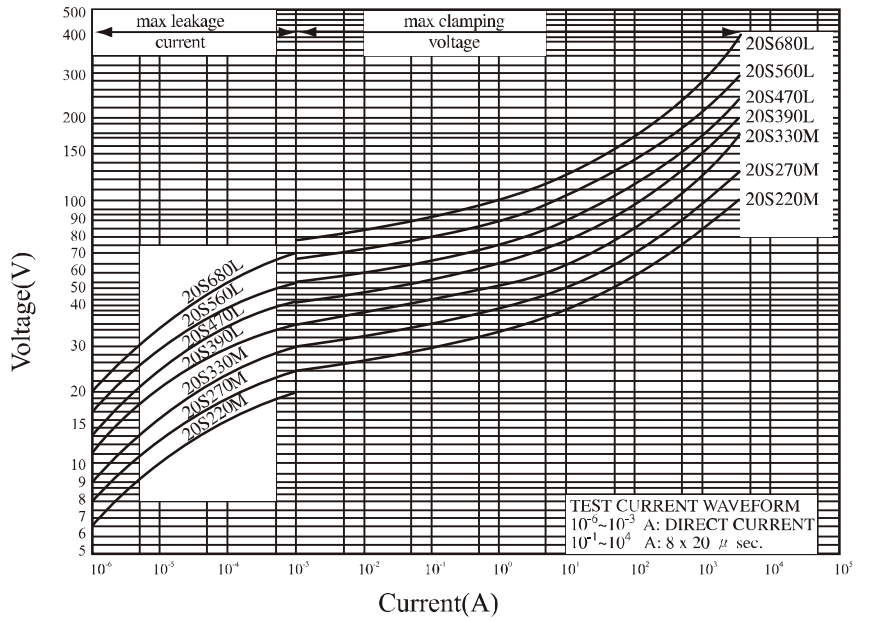
**PULSE LIFETIME RATINGS - 20mm**

**20S220M ~ 680L**

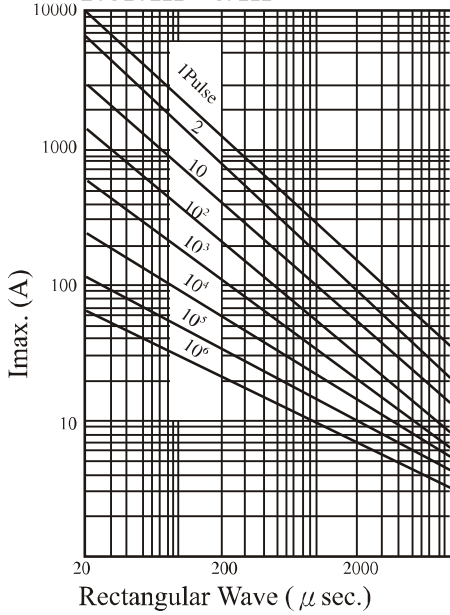


**V-I CHARACTERISTIC CURVE - 20mm**

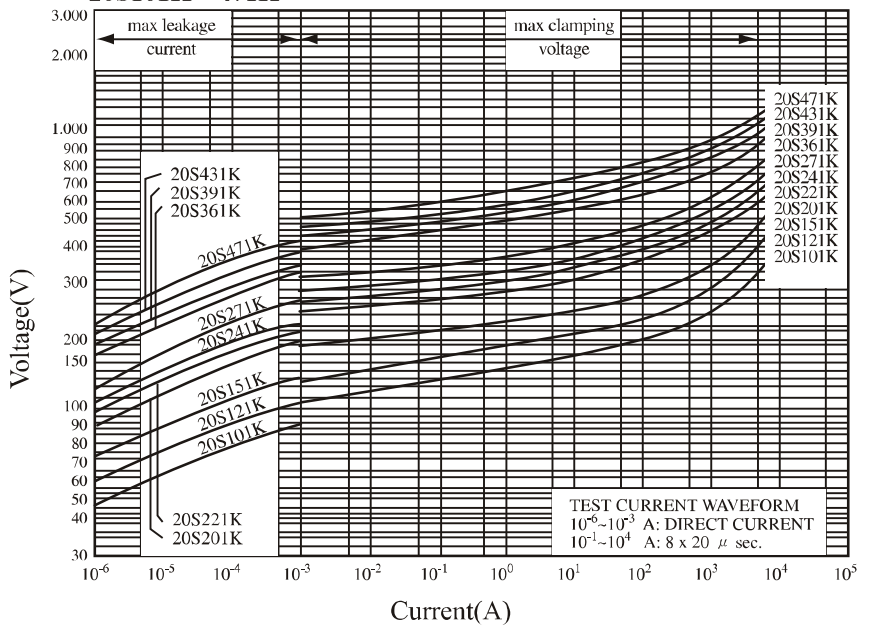
**20S220M ~ 680L**



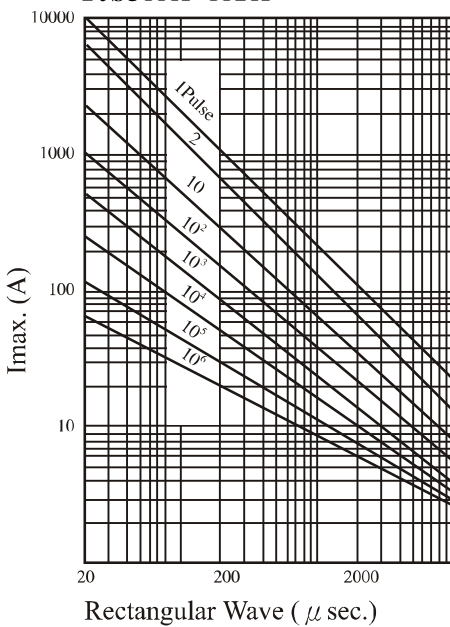
**20S101K ~ 471K**



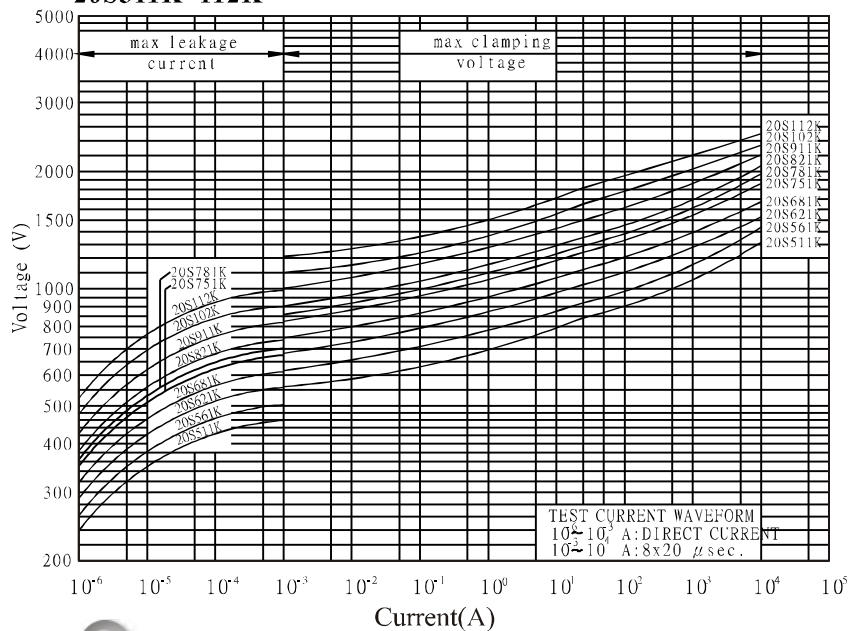
**20S101K ~ 471K**



**20S511K ~ 112K**



**20S511K ~ 112K**





**RATING AND CHARACTERISTICS**

**Ultra Surge Varistors - 7mm**

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT07U181K65□△△ | 180                      | ±10%      | 115                       | 150    | 300                      | 10     | 1800                                | 1                                  | 0.25          | 19                 | ☆★☆☆                        |
| JVT07U201K65□△△ | 200                      |           | 21                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U221K65□△△ | 220                      |           | 23                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U241K65□△△ | 240                      |           | 25                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U271K65□△△ | 270                      |           | 28                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U301K65□△△ | 300                      |           | 32                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U331K65□△△ | 330                      |           | 34                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U361K65□△△ | 360                      |           | 37                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U391K65□△△ | 390                      |           | 40                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U431K65□△△ | 430                      |           | 46                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U471K65□△△ | 470                      |           | 49                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U511K65□△△ | 510                      |           | 54                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U561K65□△△ | 560                      |           | 55                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U621K65□△△ | 620                      |           | 59                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U681K65□△△ | 680                      |           | 62                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U751K65□△△ | 750                      |           | 66                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U781k65□△△ | 780                      |           | 68                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT07U821k65□△△ | 820                      |           | 71                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |

**Ultra Surge Varistors - 10mm**

| Ordering Code   | Varistor Voltage at 0.1mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|---------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                    | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT10U181K87□△△ | 180                       | ±10%      | 115                       | 150    | 300                      | 25     | 4500                                | 2                                  | 0.4           | 47                 | ☆★☆☆                        |
| JVT10U201K87□△△ | 200                       |           | 52                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U221K87□△△ | 220                       |           | 58                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U241K87□△△ | 240                       |           | 64                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U271K87□△△ | 270                       |           | 67                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U301K87□△△ | 300                       |           | 70                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U331K87□△△ | 330                       |           | 72                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U361K87□△△ | 360                       |           | 76                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U391K87□△△ | 390                       |           | 82                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U431K87□△△ | 430                       |           | 93                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U471K87□△△ | 470                       |           | 99                        | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U511K87□△△ | 510                       |           | 107                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U561K87□△△ | 560                       |           | 113                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U621K87□△△ | 620                       |           | 125                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U681K87□△△ | 680                       |           | 128                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U751K87□△△ | 750                       |           | 134                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U781k87□△△ | 780                       |           | 139                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U821k87□△△ | 820                       |           | 146                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U911k87□△△ | 910                       |           | 152                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U102K87□△△ | 1000                      |           | 170                       | ☆★☆☆   |                          |        |                                     |                                    |               |                    |                             |
| JVT10U112K87□△△ | 1100                      | 180       | ☆★☆☆                      |        |                          |        |                                     |                                    |               |                    |                             |

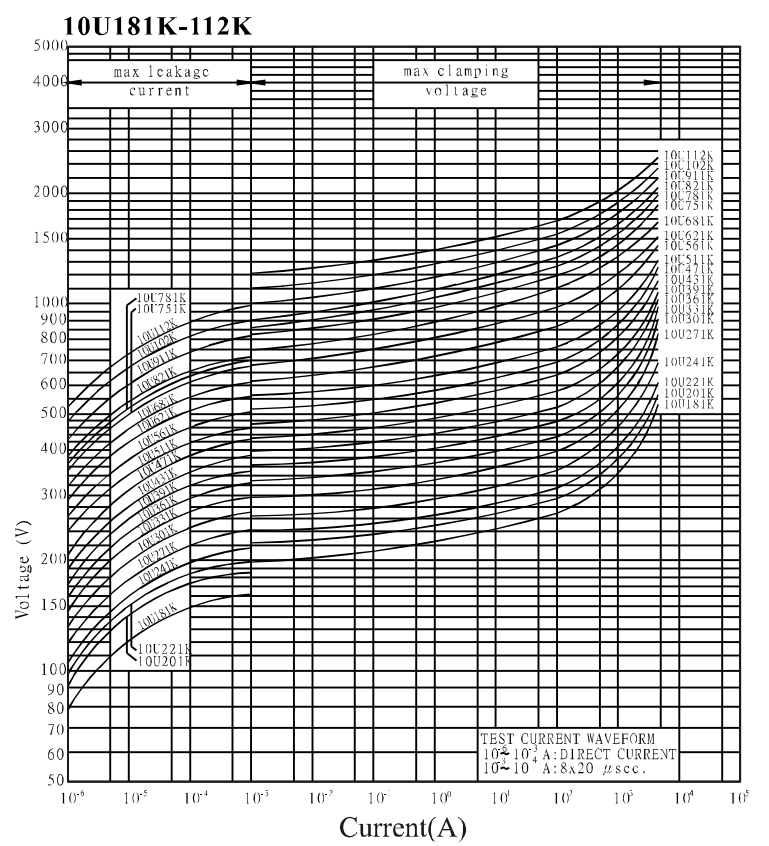
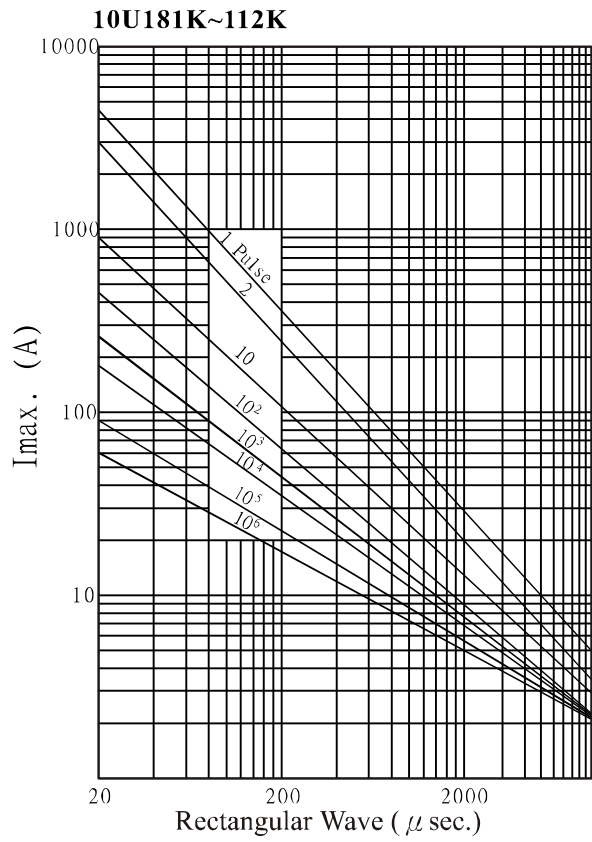
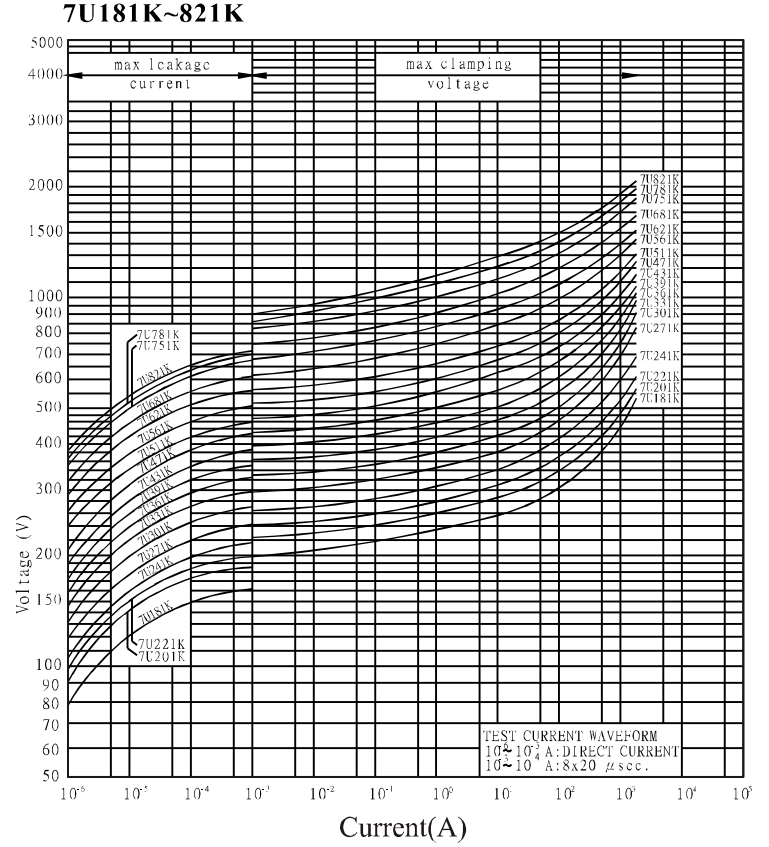
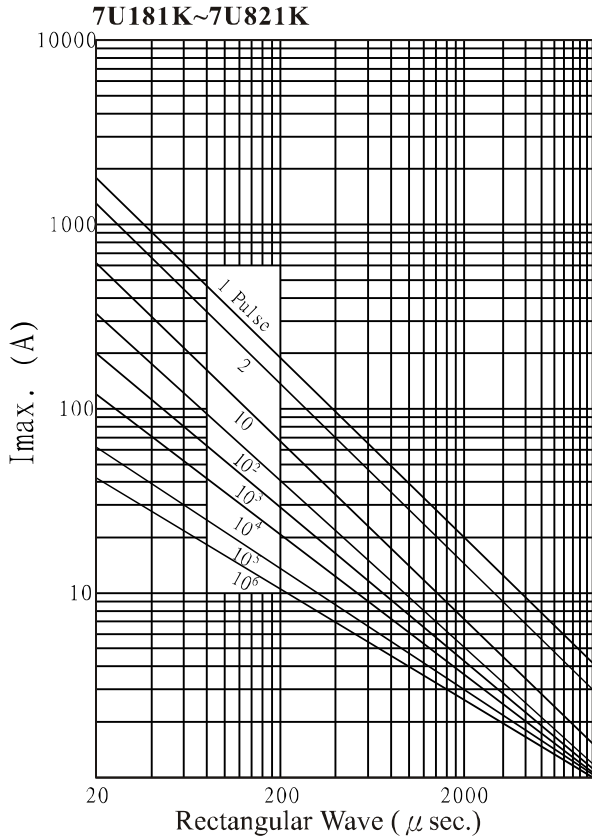
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style ( Y = Vertical Kink , P = Straight )

△ △ : Lead Length & Packing

**PULSE LIFETIME RATINGS - 7mm**

**V-I CHARACTERISTIC CURVE - 7mm**







**RATING AND CHARACTERISTICS**  
**Ultra Surge Varistors - 14mm**

| Ordering Code   | Varistor Voltage at 1 mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|--------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                   | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT14U181K87□△△ | 180                      | ±10%      | 115                       | 150    | 300                      | 50     | 8000                                | 3.0                                | 0.6           | 60                 | ☆★☆☆                        |
| JVT14U201K87□△△ | 200                      |           | 130                       | 170    | 340                      |        |                                     |                                    |               | 82                 | ☆★☆☆                        |
| JVT14U221K87□△△ | 220                      |           | 140                       | 180    | 360                      |        |                                     |                                    |               | 90                 | ☆★☆☆                        |
| JVT14U241K87□△△ | 240                      |           | 150                       | 200    | 395                      |        |                                     |                                    |               | 98                 | ☆★☆☆                        |
| JVT14U271K87□△△ | 270                      |           | 175                       | 225    | 455                      |        |                                     |                                    |               | 116                | ☆★☆☆                        |
| JVT14U301K87□△△ | 300                      |           | 195                       | 250    | 505                      |        |                                     |                                    |               | 128                | ☆★☆☆                        |
| JVT14U331K87□△△ | 330                      |           | 210                       | 275    | 550                      |        |                                     |                                    |               | 140                | ☆★☆☆                        |
| JVT14U361K87□△△ | 360                      |           | 230                       | 300    | 595                      |        |                                     |                                    |               | 158                | ☆★☆☆                        |
| JVT14U391K87□△△ | 390                      |           | 250                       | 320    | 650                      |        |                                     |                                    |               | 170                | ☆★☆☆                        |
| JVT14U431K87□△△ | 430                      |           | 275                       | 350    | 710                      |        |                                     |                                    |               | 185                | ☆★☆☆                        |
| JVT14U471K87□△△ | 470                      |           | 300                       | 385    | 775                      |        |                                     |                                    |               | 205                | ☆★☆☆                        |
| JVT14U511K87□△△ | 510                      |           | 320                       | 418    | 842                      |        |                                     |                                    |               | 220                | ☆★☆☆                        |
| JVT14U561K87□△△ | 560                      |           | 350                       | 460    | 920                      |        |                                     |                                    |               | 240                | ☆★☆☆                        |
| JVT14U621K87□△△ | 620                      |           | 385                       | 505    | 1025                     |        |                                     |                                    |               | 250                | ☆★☆☆                        |
| JVT14U681K87□△△ | 680                      |           | 420                       | 560    | 1120                     |        |                                     |                                    |               | 260                | ☆★☆☆                        |
| JVT14U751K87□△△ | 750                      |           | 460                       | 615    | 1240                     |        |                                     |                                    |               | 270                | ☆★☆☆                        |
| JVT14U781k87□△△ | 780                      |           | 485                       | 640    | 1290                     |        |                                     |                                    |               | 274                | ☆★☆☆                        |
| JVT14U821k87□△△ | 820                      |           | 510                       | 670    | 1355                     |        |                                     |                                    |               | 280                | ☆★☆☆                        |
| JVT14U911k87□△△ | 910                      |           | 550                       | 745    | 1500                     |        |                                     |                                    |               | 295                | ☆★☆☆                        |
| JVT14U102K87□△△ | 1000                     |           | 625                       | 825    | 1650                     |        |                                     |                                    |               | 335                | ☆★☆☆                        |
| JVT14U112K87□△△ | 1100                     | 680       | 895                       | 1815   | 360                      | ☆★☆☆   |                                     |                                    |               |                    |                             |

**Ultra Surge Varistors - 20mm**

| Ordering Code   | Varistor Voltage at 0.1mA |           | Maximum Allowable Voltage |        | Maximum Clamping Voltage |        | Withstanding Surge Current (8/20us) | Nominal Discharge Current (8/20us) | Rated Wattage | Energy (10/1000us) | Certification (ref to p.54) |
|-----------------|---------------------------|-----------|---------------------------|--------|--------------------------|--------|-------------------------------------|------------------------------------|---------------|--------------------|-----------------------------|
|                 | DC (V)                    | Tolerance | AC rms (V)                | DC (V) | V@ ic (V)                | ic (A) | 1 Time (A)                          | In (kA)                            | (W)           | (J)                |                             |
| JVT20U181K87□△△ | 180                       | ±10%      | 115                       | 150    | 300                      | 100    | 13000                               | 5.0                                | 1.0           | 152                | ☆★☆☆                        |
| JVT20U201K87□△△ | 200                       |           | 130                       | 170    | 340                      |        |                                     |                                    |               | 175                | ☆★☆☆                        |
| JVT20U221K87□△△ | 220                       |           | 140                       | 180    | 360                      |        |                                     |                                    |               | 185                | ☆★☆☆                        |
| JVT20U241K87□△△ | 240                       |           | 150                       | 200    | 395                      |        |                                     |                                    |               | 198                | ☆★☆☆                        |
| JVT20U271K87□△△ | 270                       |           | 175                       | 225    | 455                      |        |                                     |                                    |               | 220                | ☆★☆☆                        |
| JVT20U301K87□△△ | 300                       |           | 195                       | 250    | 505                      |        |                                     |                                    |               | 245                | ☆★☆☆                        |
| JVT20U331K87□△△ | 330                       |           | 210                       | 275    | 550                      |        |                                     |                                    |               | 268                | ☆★☆☆                        |
| JVT20U361K87□△△ | 360                       |           | 230                       | 300    | 595                      |        |                                     |                                    |               | 315                | ☆★☆☆                        |
| JVT20U391K87□△△ | 390                       |           | 250                       | 320    | 650                      |        |                                     |                                    |               | 350                | ☆★☆☆                        |
| JVT20U431K87□△△ | 430                       |           | 275                       | 350    | 710                      |        |                                     |                                    |               | 380                | ☆★☆☆                        |
| JVT20U471K87□△△ | 470                       |           | 300                       | 385    | 775                      |        |                                     |                                    |               | 405                | ☆★☆☆                        |
| JVT20U511K87□△△ | 510                       |           | 320                       | 418    | 842                      |        |                                     |                                    |               | 445                | ☆★☆☆                        |
| JVT20U561K87□△△ | 560                       |           | 350                       | 460    | 920                      |        |                                     |                                    |               | 475                | ☆★☆☆                        |
| JVT20U621K87□△△ | 620                       |           | 385                       | 505    | 1025                     |        |                                     |                                    |               | 490                | ☆★☆☆                        |
| JVT20U681K87□△△ | 680                       |           | 420                       | 560    | 1120                     |        |                                     |                                    |               | 500                | ☆★☆☆                        |
| JVT20U751K87□△△ | 750                       |           | 460                       | 615    | 1240                     |        |                                     |                                    |               | 525                | ☆★☆☆                        |
| JVT20U781k87□△△ | 780                       |           | 485                       | 640    | 1290                     |        |                                     |                                    |               | 530                | ☆★☆☆                        |
| JVT20U821k87□△△ | 820                       |           | 510                       | 670    | 1355                     |        |                                     |                                    |               | 545                | ☆★☆☆                        |
| JVT20U911k87□△△ | 910                       |           | 550                       | 745    | 1500                     |        |                                     |                                    |               | 595                | ☆★☆☆                        |
| JVT20U102K87□△△ | 1000                      |           | 625                       | 825    | 1650                     |        |                                     |                                    |               | 650                | ☆★☆☆                        |
| JVT20U112K87□△△ | 1100                      | 680       | 895                       | 1815   | 720                      | ☆★☆☆   |                                     |                                    |               |                    |                             |

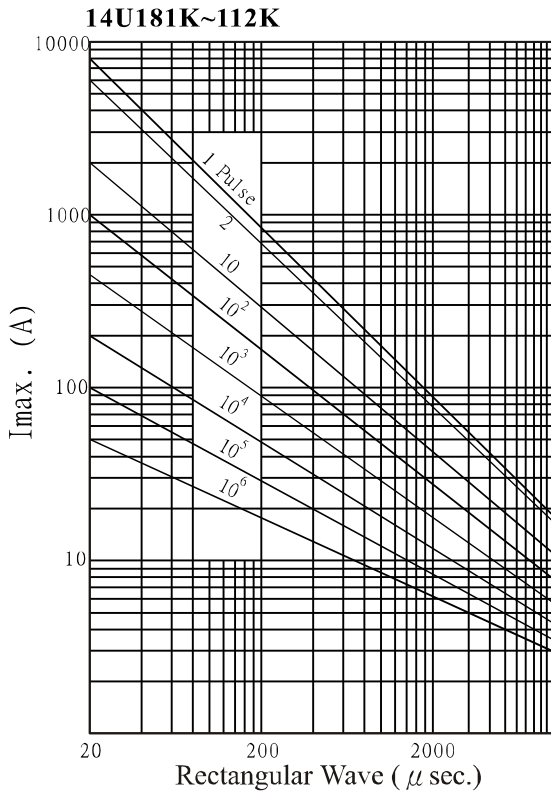
※ JVT = Silicone Coating & Operating Temperature 125 C°

□ : Lead Style ( Y = Vertical Kink , P = Straight )

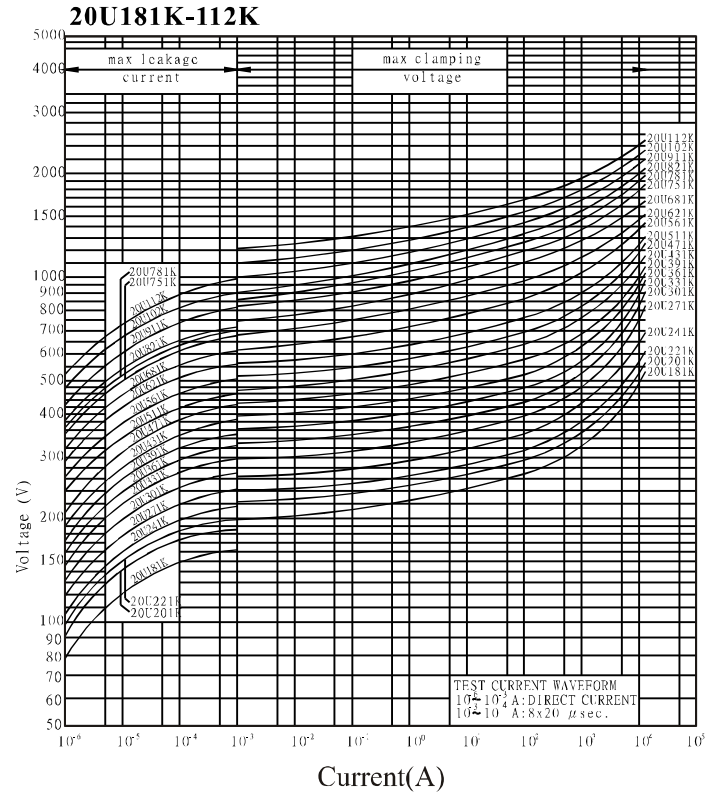
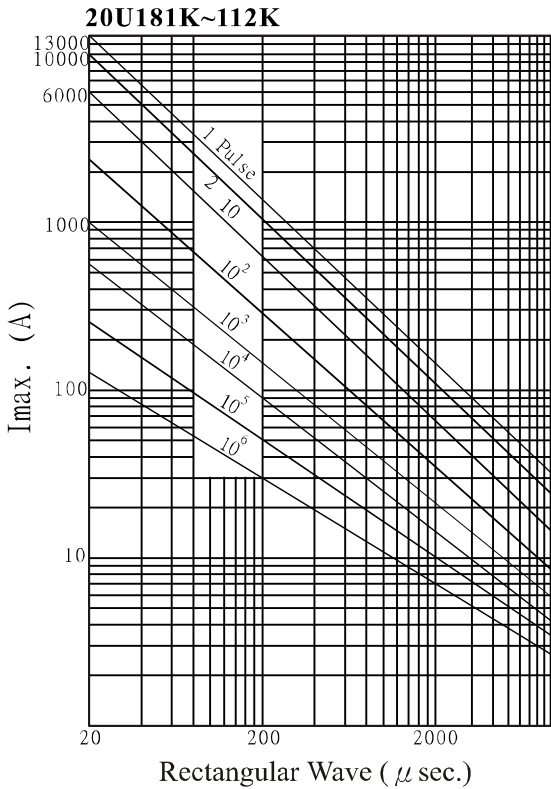
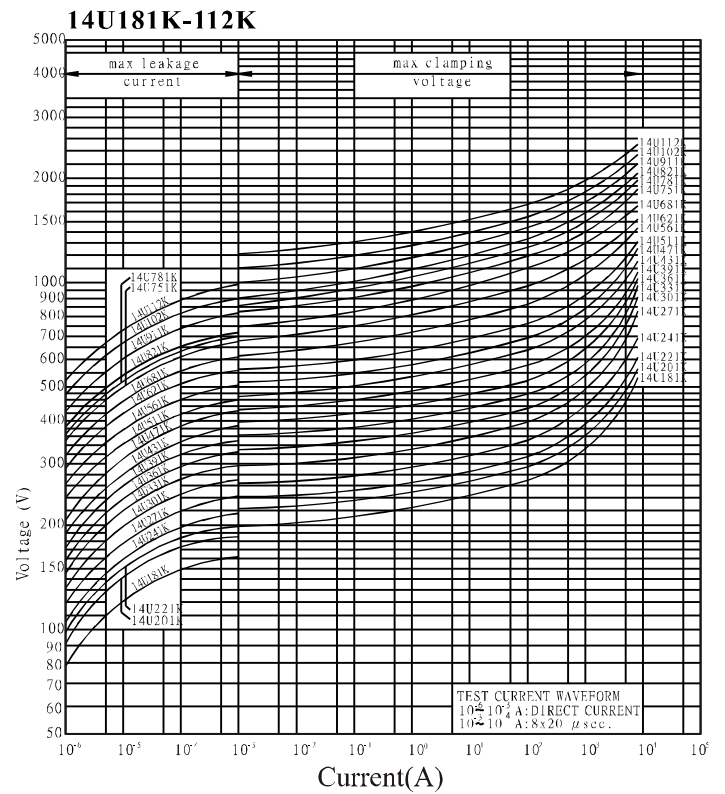
△ △ : Lead Length & Packing



**PULSE LIFETIME RATINGS - 14mm**



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