



# PJGBLC03~PJGBLC24C SERIES

## ULTRA LOW CAPACITANCE TVS ARRAY

**VOLTAGE** 3.3~24 Volt **POWER** 350 Watt

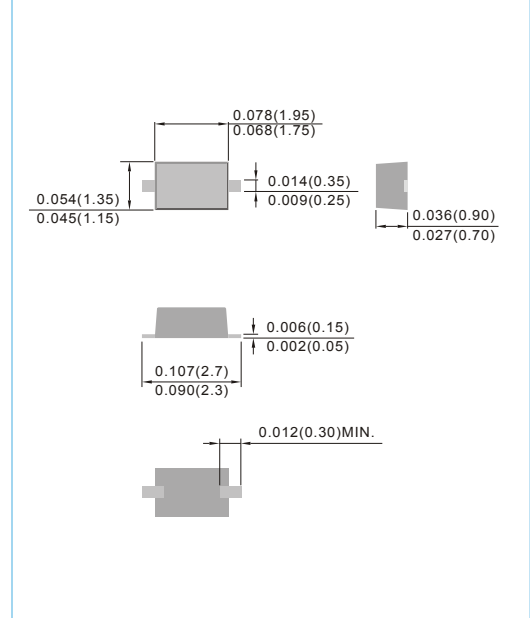
**SOD-323** Unit : inch(mm)

### FEATURES

- IEC 61000-4-2 ESD ±30kV air, ±30kV Contact
- IEC61000-4-4(EFT): 40A(5/50nS)
- Unidirectional & Bidirectional Configurations
- Replacement for MLV (0805)
- Protects One Power or I/O Port
- Low Clamping Voltage
- Ultra Low Capacitance : 3pF Maximum
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case: SOD-323,Molded plastic over passivated junction
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0001 ounces, 0.0041 grams



### MAXIMUM RATINGS (@25°C unless otherwise specified)

| PARAMETER  | SYMBOL                           | VALUE       | UNITS |
|--|----------------------------------|-------------|-------|
| Peak Pulse Power (t <sub>P</sub> =8/20μs)-See Figure 1 | P <sub>PP</sub>                  | 350         | W     |
| Operating and Storage Temperature Range                | T <sub>J</sub> ,T <sub>STG</sub> | -55 to +150 | °C    |



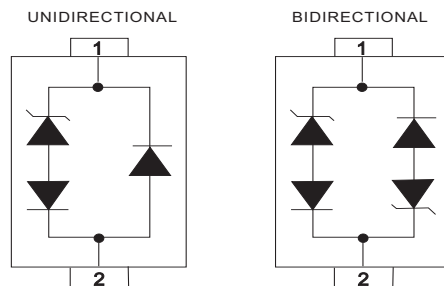
## PJGBLC03~PJGBLC24C SERIES

### ELECTRICAL CHARACTERISTICS PER LINE (@25°C unless otherwise specified)

| Part Number<br>(See Notes1-2) | Peak Power<br>Dissipation<br>@8/20μs<br>P <sub>PPM</sub> | Rated-Stand-<br>Off Voltage | Reverse Breakdown Voltage        |       |                                 | Maximum Clamping<br>Voltage (See Fig.2)<br>@8/20μs P <sub>PPM</sub> |                                   | Leakage<br>Current | Off-State<br>Capacitance,<br>1MHz Zero dc<br>Bias |    | Marking<br>Code |
|-------------------------------|--|-----------------------------|----------------------------------|-------|---------------------------------|---|-----------------------------------|--------------------|---|----|-----------------|
|                               |  |                             | V <sub>BR</sub> @ I <sub>T</sub> |       | V <sub>C</sub> @I <sub>PP</sub> |   | I <sub>R</sub> @ V <sub>RWM</sub> |                    | 0V@1MHz   |    |                 |
|                               |  |                             | Max.                             | Min.  | Max.                            | I <sub>T</sub>  | Max.                              |                    | Co  |    |                 |
|                               |  |                             | V                                | V     | V                               | mA  | V                                 |                    | A   | μA |                 |
| PJGBLC03                      | 350  | 3.3                         | 4.75                             | 5.25  | 1                               | 7.5   | 1                                 | 20                 | 3   | AA |                 |
| PJGBLC03C                     | 350  | 3.3                         | 4.75                             | 5.25  | 1                               | 7.5   | 1                                 | 20                 | 3   | AQ |                 |
| PJGBLC05                      | 350  | 5.0                         | 7.03                             | 7.77  | 1                               | 9.8   | 1                                 | 5                  | 3   | AB |                 |
| PJGBLC05C                     | 350  | 5.0                         | 7.03                             | 7.77  | 1                               | 9.8   | 1                                 | 5                  | 3   | AL |                 |
| PJGBLC08                      | 350  | 8.0                         | 8.93                             | 9.87  | 1                               | 13.4  | 1                                 | 1                  | 3   | AC |                 |
| PJGBLC08C                     | 350  | 8.0                         | 8.93                             | 9.87  | 1                               | 13.4  | 1                                 | 1                  | 3   | AR |                 |
| PJGBLC12                      | 350  | 12                          | 13.97                            | 15.44 | 1                               | 19  | 1                                 | 1                  | 3   | AJ |                 |
| PJGBLC12C                     | 350  | 12                          | 13.97                            | 15.44 | 1                               | 19  | 1                                 | 1                  | 3   | AM |                 |
| PJGBLC15                      | 350  | 15                          | 17.39                            | 19.22 | 1                               | 24  | 1                                 | 1                  | 3   | AS |                 |
| PJGBLC15C                     | 350  | 15                          | 17.39                            | 19.22 | 1                               | 24  | 1                                 | 1                  | 3   | AN |                 |
| PJGBLC24                      | 350  | 24                          | 27.27                            | 30.14 | 1                               | 43  | 1                                 | 1                  | 3   | AT |                 |
| PJGBLC24C                     | 350  | 24                          | 27.27                            | 30.14 | 1                               | 43  | 1                                 | 1                  | 3   | AP |                 |

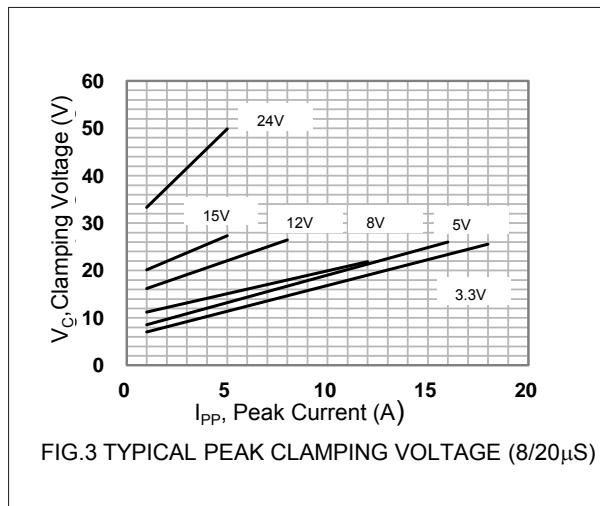
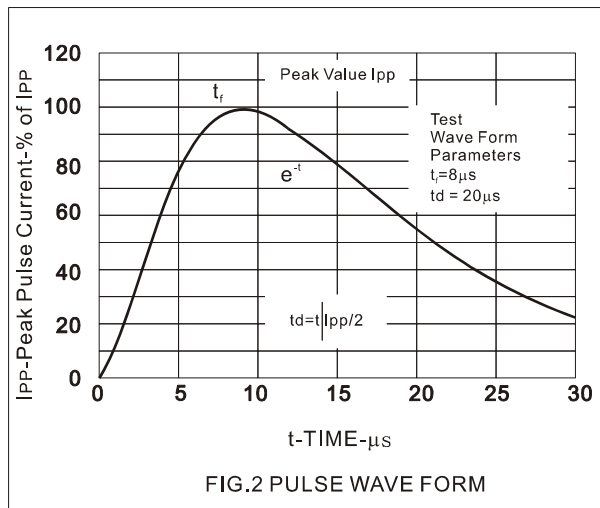
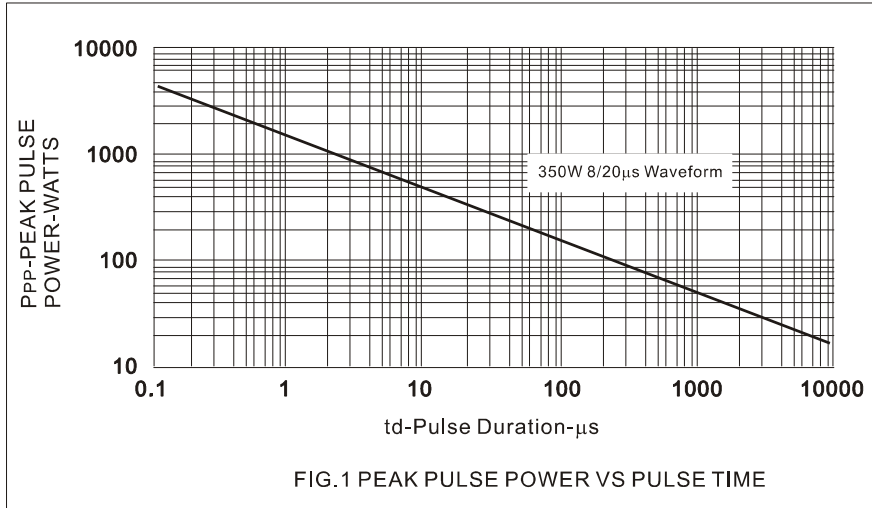
**NOTES:**

- 1.Part numbers with an additional "C" suffix are bidirectional devices,i.e.,PJGBLC03 C
- 2.Unidirectional Only : Positive potential is applied from pin 2 to 1





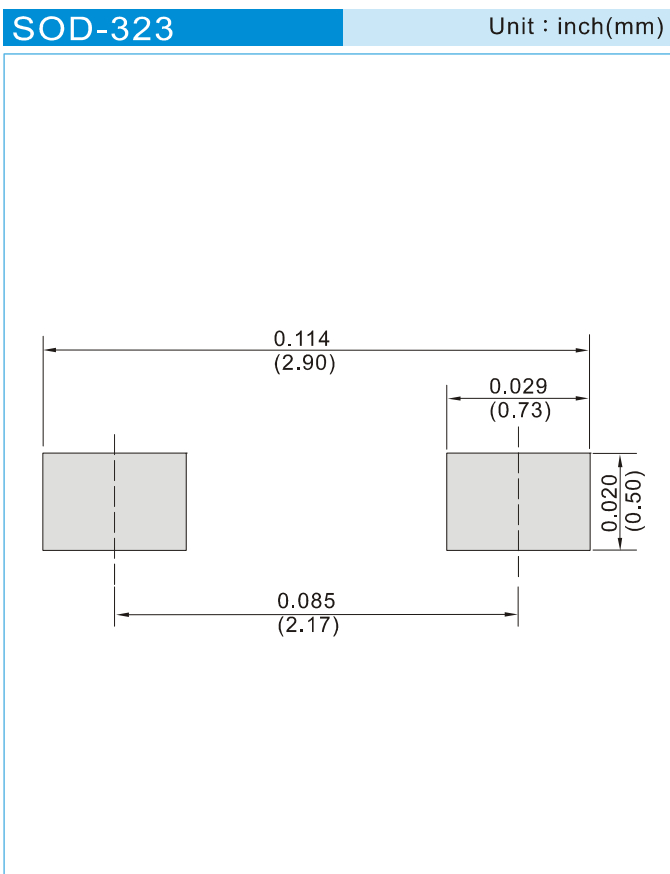
# PJGBLC03~PJGBLC24C SERIES





## PJGBLC03~PJGBLC24C SERIES

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 5K per 7" plastic Reel



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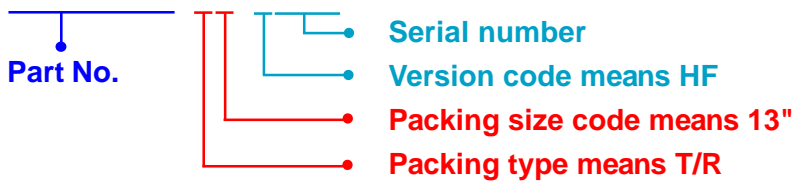
### Part No\_packing code\_Version

PJGBLC03\_R1\_00001

PJGBLC03\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | A                    | N/A                              | 0                    | HF                        | 0                    | serial number                         |
| Tape and Reel (T/R)                  | R                    | 7"                               | 1                    | RoHS                      | 1                    | serial number                         |
| Bulk Packing (B/P)                   | B                    | 13"                              | 2                    |                           |                      |                                       |
| Tube Packing (T/P)                   | T                    | 26mm                             | X                    |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | S                    | 52mm                             | Y                    |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | L                    | PANASERT T/B CATHODE UP (PBCU)   | U                    |                           |                      |                                       |
| FORMING                              | F                    | PANASERT T/B CATHODE DOWN (PBCD) | D                    |                           |                      |                                       |



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