

Performance Specification

| Model | V _{max} | I _{max} | I _{hold} | I _{trip} | P _d | Maximum Time | | Resistance | | |
|-----------|------------------|------------------|-------------------|-------------------|----------------|--------------|-------|--------------------|--------------------|--------------------|
| | | | | | | To Trip | | R _i min | R _i max | R ₁ max |
| | (Vdc) | (A) | (A) | (A) | (W) | (A) | (Sec) | | | |
| JK16-090 | 16 | 40 | 0.90 | 1.80 | 0.60 | 8.00 | 1.2 | 0.070 | 0.1200 | 0.180 |
| JK16-110 | 16 | 40 | 1.10 | 2.20 | 0.70 | 8.00 | 2.3 | 0.050 | 0.0950 | 0.140 |
| JK16-135 | 16 | 40 | 1.35 | 2.70 | 0.80 | 8.00 | 4.5 | 0.040 | 0.0740 | 0.120 |
| JK16-160 | 16 | 40 | 1.60 | 3.20 | 0.90 | 8.00 | 9.0 | 0.030 | 0.0610 | 0.110 |
| JK16-185 | 16 | 40 | 1.85 | 3.70 | 1.00 | 8.00 | 10.0 | 0.030 | 0.0510 | 0.090 |
| JK16-250 | 16 | 40 | 2.50 | 5.00 | 1.20 | 12.50 | 5.0 | 0.020 | 0.0350 | 0.060 |
| JK16-300 | 16 | 40 | 3.00 | 5.10 | 2.30 | 15.00 | 1.0 | 0.034 | 0.0650 | 0.105 |
| JK16-400 | 16 | 40 | 4.00 | 6.80 | 2.40 | 20.00 | 1.7 | 0.020 | 0.0390 | 0.063 |
| JK16-500 | 16 | 40 | 5.00 | 8.50 | 2.60 | 25.00 | 2.0 | 0.014 | 0.0230 | 0.044 |
| JK16-600 | 16 | 40 | 6.00 | 10.20 | 2.80 | 30.00 | 3.3 | 0.009 | 0.0190 | 0.030 |
| JK16-700 | 16 | 40 | 7.00 | 11.90 | 3.00 | 35.00 | 3.5 | 0.006 | 0.0130 | 0.021 |
| JK16-800 | 16 | 40 | 8.00 | 13.60 | 3.00 | 40.00 | 5.0 | 0.005 | 0.0110 | 0.018 |
| JK16-900 | 16 | 40 | 9.00 | 15.30 | 3.30 | 45.00 | 5.5 | 0.004 | 0.0092 | 0.015 |
| JK16-1000 | 16 | 40 | 10.00 | 17.00 | 3.60 | 50.00 | 6.0 | 0.003 | 0.0071 | 0.012 |
| JK16-1100 | 16 | 40 | 11.00 | 18.70 | 3.70 | 55.00 | 7.0 | 0.003 | 0.0062 | 0.010 |
| JK16-200 | 16 | 40 | 12.00 | 20.40 | 4.20 | 60.00 | 7.5 | 0.002 | 0.0060 | 0.009 |
| JK16-1300 | 16 | 40 | 13.00 | 23.00 | 4.40 | 65.00 | 8.5 | 0.002 | 0.0060 | 0.009 |
| JK16-1400 | 16 | 100 | 14.00 | 23.80 | 4.60 | 70.00 | 9.0 | 0.002 | 0.0045 | 0.008 |

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage.

R_i min/max = Minimum/Maximum device resistance prior to tripping at 25°C.



R₁max = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

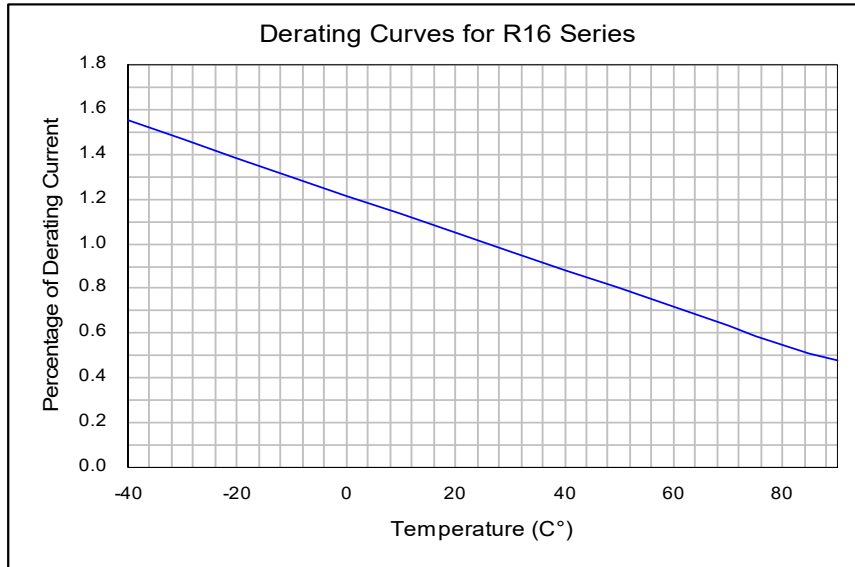
Environmental Specifications

| Test | Conditions | Resistance change |
|--|-----------------------------|-------------------|
| Passive aging | +85°C, 1000 hrs. | ±5% typical |
| Humidity aging | +85°C, 85% R.H. , 168 hours | ±5% typical |
| Thermal shock | +85°C to -40°C, 20 times | ±33% typical |
| Resistance to solvent | MIL-STD-202, Method 215 | No change |
| Vibration | MIL-STD-202, Method 201 | No change |
| Ambient operating conditions : - 40 °C to +85 °C | | |
| Maximum surface temperature of the device in the tripped state is 125 °C | | |

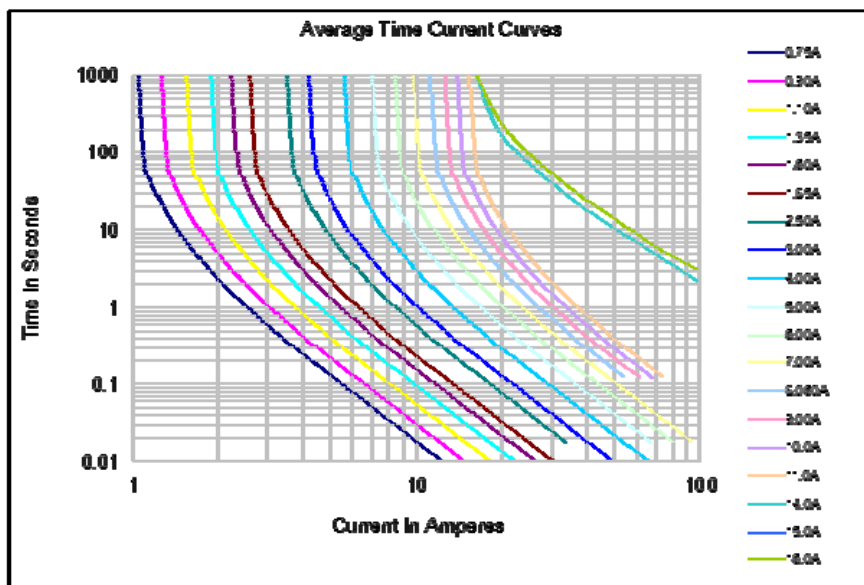
Agency Approval and Environmental Compliance

| Agency | File Number | Regulation | Standard |
|--------|-------------|--|------------|
| UL | pending |  | 2002/95/EC |
| TUV | pending |  | EN14582 |

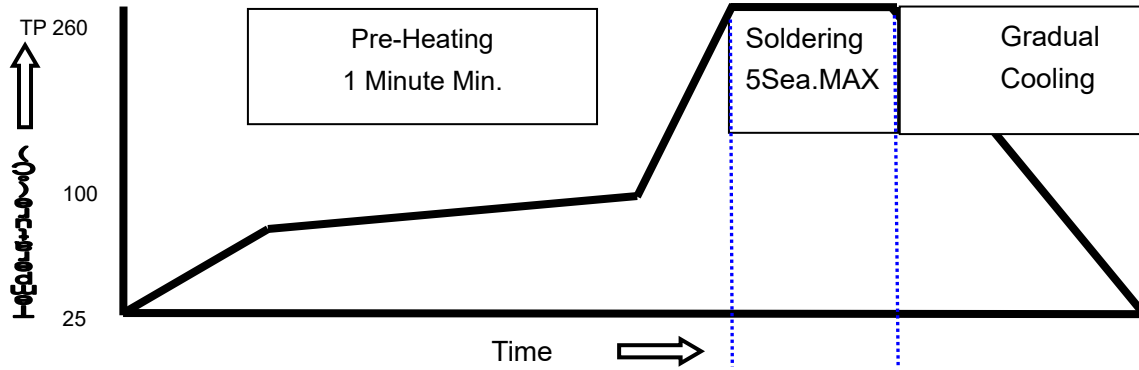
Thermal Derating Curve



Average Time-Current Curve

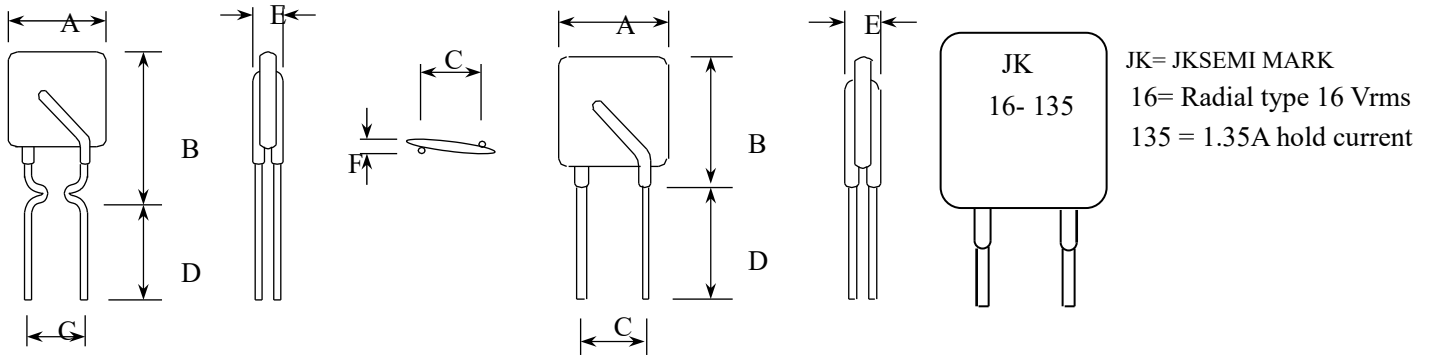


Soldering Parameters



| WAVE SOLDERING INFORMATIONS | |
|--|---|
| Pre-Heating Zone | Max. ramping rate should not exceed 4°C/Sec. |
| Soldering Zone | Max. solder temperature should not exceed 260°C |
| Cooling Zone | Cooling by natural convection in air. |
| © Specifications are subject to change without notice. | |

Physical Dimensions(mm.)



| Model | A Max. | B Max. | C Typ. | D Min. | E Max. | Lead Style |
|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| JK16-090 | 7.40 | 12.20 | 5.10 | 7.6 | 3 | Kink |
| JK16-110 | 7.40 | 14.20 | 5.10 | 7.6 | 3 | Kink |
| JK16-135 | 8.90 | 13.50 | 5.10 | 7.6 | 3 | Kink |
| JK16-160 | 8.90 | 15.20 | 5.10 | 7.6 | 3 | Kink |
| JK16-185 | 10.20 | 15.70 | 5.10 | 7.6 | 3 | Kink |
| JK16-250 | 10.40 | 14.30 | 5.10 | 7.6 | 3 | Kink |
| JK16-300 | 7.10 | 11.00 | 5.10 | 7.6 | 3 | Straight |
| JK16-400 | 8.90 | 15.20 | 5.10 | 7.6 | 3 | Straight |
| JK16-500 | 10.40 | 15.70 | 5.10 | 7.6 | 3 | Straight |
| JK16-600 | 10.70 | 18.30 | 5.10 | 7.6 | 3 | Straight |
| JK16-700 | 12.70 | 19.70 | 5.10 | 7.6 | 3 | Straight |
| JK16-800 | 13.40 | 20.10 | 5.10 | 7.6 | 3 | Straight |
| JK16-900 | 14.00 | 24.90 | 5.10 | 7.6 | 3 | Straight |
| JK16-1000 | 16.50 | 24.90 | 5.10 | 7.6 | 3 | Straight |
| JK16-1100 | 17.50 | 24.90 | 5.10 | 7.6 | 3 | Straight |
| JK16-200 | 18.50 | 26.70 | 10.20 | 7.6 | 3.5 | Straight |
| JK16-1300 | 23.50 | 27.90 | 10.20 | 7.6 | 3.5 | Straight |
| JK16-1400 | 23.50 | 27.90 | 10.20 | 7.6 | 3.5 | Straight |

PHYSICAL SPECIFICATIONS :

Materials : Leads JK16-090~250 : Tin plated copper-clad steel, 24 AWG (0.51mm/0.020" Dia.)
 JK16-300~1100 : Tin plated copper, 20 AWG (0.81mm/0.032" Dia.)
 JK16-1200~1400 : Tin plated copper, 18 AWG (1.0mm/0.04" Dia.)

Lead Solderability : MIL-STD-202, Method 208E

Device Labeling : Device is marked with Logo, amperage rating , voltage rating & date code.

Packaging Quantity

| 16 | 135 | K or S | R or U | Model | Reel Q'ty | Bag Q'ty |
|-------------|---------|---------------|-------------|-----------------------|-----------|----------|
| Radial type | Hold | K= Kink leads | R=Tape&reel | JK16-090 ~ JK16- 600 | 3000 | 500 |
| 16V | Current | S=Straight | U= Bulk | JK16-700 ~ JK16- 900 | 1500 | 500 |
| | (A) | leads | packaged | JK16-1000 ~ JK16-1400 | - | 500 |

Tape & Reel packaging per EIA468-B standard.

Cross Reference

| Darong | Cross Reference | | | |
|-----------|-----------------|---------------------|-------------------------|----------|
| | Tyco / Raychem | Bourns / Multifuse® | Polytronics / EVERFUSE® | SEA-LAND |
| JK16-090 | RUSBF090 | MF-RHT070 | RLD16P090BF | R16-090 |
| JK16-110 | RUSBF110 | - | RLD16P110BF | R16-110 |
| JK16-135 | RUSBF135 | - | RLD16P135BF | R16-135 |
| JK16-160 | RUSBF160 | - | RLD16P160BF | R16-160 |
| JK16-185 | RUSBF185 | MF-RHT200 | RLD16P185BF | R16-185 |
| JK16-250 | RUSBF250 | - | RLD16P250BF | R16-250 |
| JK16-300 | RGEF300 | MF-RG300 | RLD16P300GF | R16-300 |
| JK16-400 | RGEF400 | MF-RHT450 | RLD16P400GF | R16-400 |
| JK16-500 | RGEF500 | MF-RG500 | RLD16P500GF | R16-500 |
| JK16-600 | RGEF600 | MF-RHT650 | RLD16P600GF | R16-600 |
| JK16-700 | RGEF700 | MF-RHT750 | RLD16P700GF | R16-700 |
| JK16-800 | RGEF800 | - | RLD16P800GF | R16-800 |
| JK16-900 | RGEF900 | - | RLD16P900GF | R16-900 |
| JK16-1000 | RGEF1000 | - | RLD16P1000GF | R16-1000 |
| JK16-1100 | RGEF1100 | MF-R1100 | RLD16P1100GF | R16-1100 |
| JK16-200 | RGEF1200 | - | RLD16P1200GF | R16-1200 |
| JK16-1300 | - | MF-RHT1300 | - | R16-1300 |
| JK16-1400 | RGEF1400 | - | RLD16P1400GF | R16-1400 |

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