

Performance Specification

| Model | I _{hold} | I _{trip} | V _{max} | V _{max} | I _{max} | P _d | Maximum Time | | Resistance | | |
|-------------|-------------------|-------------------|------------------|------------------|------------------|----------------|--------------|------|---------------------|---------------------|---------------------|
| | | | Operating | Interrupt | | | To Trip | | R _{i min.} | R _{i max.} | R _{1 max.} |
| | (mA) | (mA) | (Vdc) | (Vrms) | (A) | Typ. | Current | Time | (Ω) | (Ω) | (Ω) |
| JK250-020U | 20 | 45 | 60 | 250 | 3 | 1.00 | 0.5 | 0.4 | 70 | 160 | 240 |
| JK250-030U | 30 | 65 | 60 | 250 | 3 | 1.00 | 0.5 | 0.5 | 50 | 120 | 180 |
| JK250-040U | 40 | 80 | 60 | 250 | 3 | 1.00 | 0.5 | 1.0 | 30 | 60 | 100 |
| JK250-060U | 60 | 120 | 60 | 250 | 3 | 1.00 | 0.5 | 0.5 | 20 | 60 | 90 |
| JK250-080U | 80 | 160 | 60 | 250 | 3 | 1.00 | 1.00 | 0.4 | 12 | 22 | 33 |
| JK250-090U | 90 | 180 | 60 | 250 | 3 | 1.00 | 1.00 | 0.5 | 10 | 20 | 31 |
| JK250-100U | 100 | 200 | 60 | 250 | 3 | 1.00 | 1.00 | 1.0 | 10 | 12 | 20 |
| JK250-110U | 110 | 220 | 60 | 250 | 3 | 1.00 | 1.00 | 1.2 | 6.0 | 12 | 16 |
| JK250-120U | 120 | 240 | 60 | 250 | 3 | 1.00 | 1.00 | 1.2 | 6.0 | 12 | 16 |
| JK250-145U | 145 | 290 | 60 | 250 | 3 | 1.00 | 1.00 | 4 | 3.5 | 6.5 | 14 |
| JK250-180T | 180 | 650 | 60 | 250 | 10 | 1.00 | 1.00 | 1.5 | 1.0 | 2.2 | 4.0 |
| JK250-180U | 180 | 650 | 60 | 250 | 10 | 1.00 | 3.00 | 1.5 | 2.0 | 4.0 | 6.0 |
| JK250-200U | 200 | 400 | 60 | 250 | 10 | 1.00 | 3.00 | 5.0 | 3.0 | 6.0 | 9.0 |
| JK250-400U | 400 | 800 | 60 | 250 | 10 | 1.00 | 3.00 | 8.0 | 1.0 | 3.0 | 6.0 |
| JK250-600U | 600 | 1200 | 60 | 250 | 10 | 1.00 | 3.00 | 12.0 | 0.6 | 1.7 | 4.5 |
| JK250-800U | 800 | 1600 | 60 | 250 | 10 | 1.50 | 5.00 | 18.0 | 0.4 | 1.0 | 3.0 |
| JK250-1000U | 1000 | 2000 | 60 | 250 | 10 | 1.50 | 5.00 | 20.0 | 0.3 | 0.8 | 2.5 |
| JK250-1200U | 1200 | 2400 | 60 | 250 | 10 | 1.50 | 6.00 | 20.0 | 0.2 | 0.8 | 2.5 |
| JK250-1500U | 1500 | 3000 | 60 | 250 | 10 | 1.50 | 7.50 | 20.0 | 0.2 | 0.6 | 2.0 |
| JK250-2000U | 2000 | 4000 | 60 | 250 | 10 | 1.50 | 10.00 | 20.0 | 0.2 | 0.4 | 1.5 |

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.

R_{1 max} = Maximum device resistance is measured one hour post reflow.

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

Physical Dimensions(mm.)

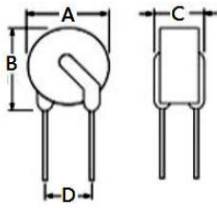


Fig.1

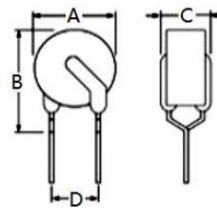


Fig.2

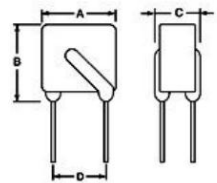


Fig.3

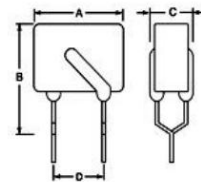


Fig.4

| Model | Dimensions (mm) | | | | Lead material | Shape |
|-------------|-----------------|--------|--------|--------|------------------|-------|
| | A(max) | B(max) | C(max) | D(typ) | Tinned metal(mm) | Fig |
| JK250-020U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1 |
| JK250-030U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1 |
| JK250-040U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1/2 |
| JK250-050U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1/2 |
| JK250-060U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1/2 |
| JK250-080U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 2 |
| JK250-090U | 7.4 | 12.7 | 4.5 | 5.1 | 22AWG/Φ0.6 | 2 |
| JK250-100U | 7.8 | 12.6 | 4.5 | 5.1 | 22AWG/Φ0.6 | 1 |
| JK250-110U | 7.0 | 12.6 | 4.5 | 5.1 | 22AWG/Φ0.6 | 4 |
| JK250-120U | 7.0 | 12.6 | 4.5 | 5.1 | 22AWG/Φ0.6 | 4 |
| JK250-145U | 7.0 | 12.6 | 4.5 | 5.1 | 22AWG/Φ0.6 | 4 |
| JK250-180T | 10.2 | 14.5 | 3.8 | 5.1 | 22AWG/Φ0.6 | 2 |
| JK250-180U | 9.0 | 11.0 | 4.5 | 5.1 | 22AWG/Φ0.6 | 4 |
| JK250-200U | 12.0 | 17.0 | 4.5 | 5.1 | 22AWG/Φ0.6 | 3 |
| JK250-400U | 12.0 | 17.0 | 4.5 | 5.1 | 22AWG/Φ0.6 | 3 |
| JK250-600U | 16.0 | 18.0 | 4.5 | 5.1 | 22AWG/Φ0.6 | 3 |
| JK250-800U | 20.0 | 22.5 | 4.5 | 5.1 | 20 AWG/Φ0.8 | 3 |
| JK250-1000U | 20 | 22.5 | 4.5 | 5.1 | 20 AWG/Φ0.8 | 3 |
| JK250-1200U | 22 | 28 | 4.5 | 5.1 | 20 AWG/Φ0.8 | 3 |
| JK250-1500U | 25 | 30 | 4.5 | 5.1 | 20 AWG/Φ0.8 | 3 |
| JK250-2000U | 26 | 32 | 4.5 | 10.2 | 20 AWG/Φ0.8 | 3 |

Unit : mm

 Note: Dimensions in the A, B, C are the maximum sizes, all typical values of D is at the tolerance of $\pm 0.75\text{mm}$.



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

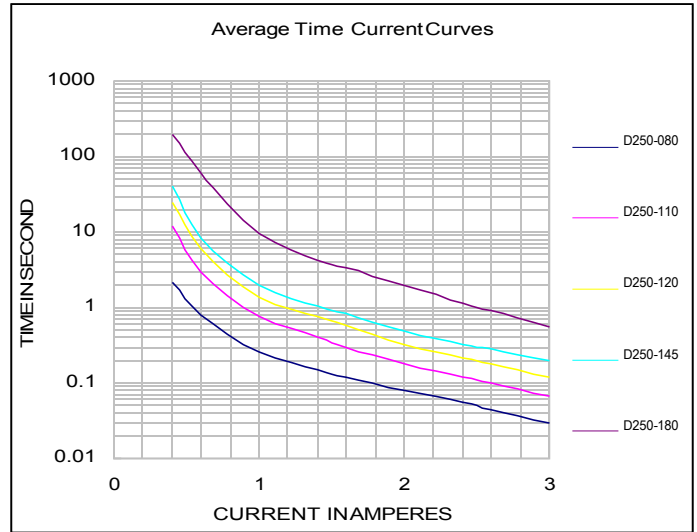
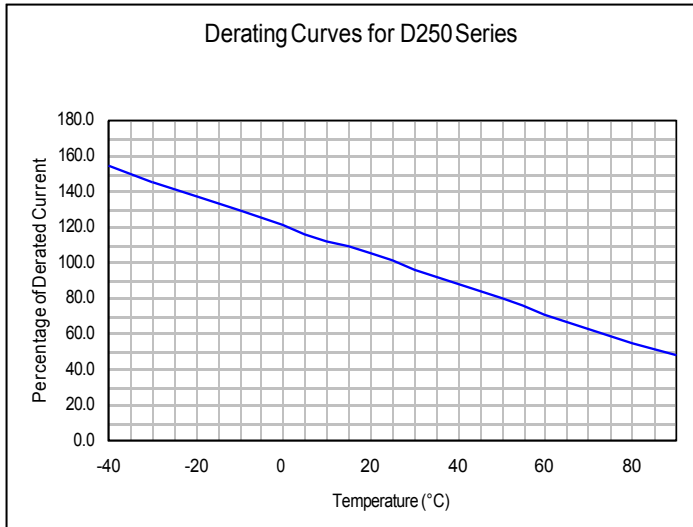
Maximum surface temperature of the device in the tripped state is 125 °C

Agency Approval and Environmental Compliance

| Agency | File Number | Regulation | Standard |
|--------|-------------|--|------------|
| UL | pending |  | 2002/95/EC |
| TUV | pending |  | R50077227 |

Thermal Derating Curve

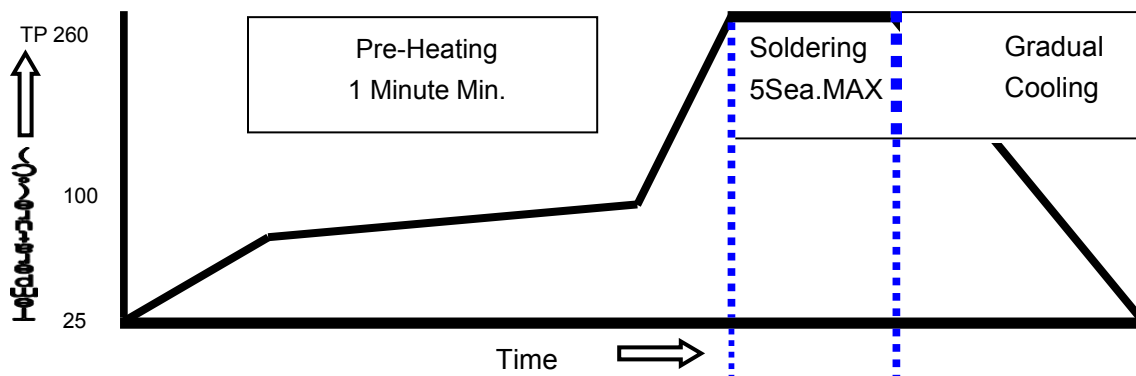
Average Time-Current Curve



Ihold Versus Temperature

| Model | Maximum ambient operating temperature (°C) | | | | | | | | | |
|--------------|--|-------|------|------|------|------|------|------|------|------|
| | -40°C | -20°C | 0°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| JK250 series | 148% | 132% | 117% | 100% | 91% | 85% | 77% | 68% | 61% | 45% |

Soldering Parameters

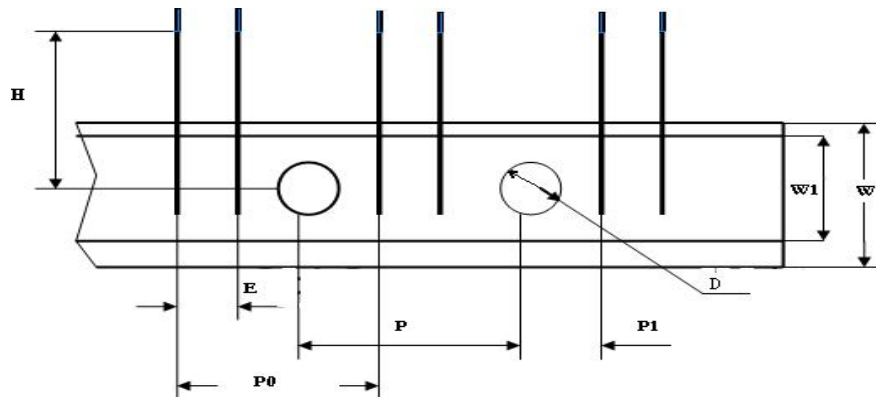


WAVE SOLDERING INFORMATIONS

| | |
|------------------|---|
| 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.

Packaging Quantity



| E | P | P0 | P1 | W1 | w | H | D |
|-----------|----------|----------|------------|----------|--------|------------|-----------|
| 5.0±0.5mm | 12.7±1mm | 12.7±1mm | 3.85±0.7mm | 12 (min) | 18±1mm | 16.5±1.0mm | 4.0±0.5mm |

Package Qty: 1000PCS/small box, 10 boxes/Carton

Small Box Dim: 330 (±4) mm×245 (±3) mm×43 (±2) mm

Carton Dim: 500 (±5) mm×350 (±4) mm×265 (±3) mm

| JK250 | 120 | U | Reel Q'ty | Bag Q'ty |
|---------|---------|-----------------|-----------|----------|
| Product | Hold | T= Pre-tripped | 1000PCS | 1000PCS |
| name | Current | U= Uncoated | | |
| 250V | (mA) | Blank= Standard | | |

Tape & Reel packaging per EIA468-B standard.

Warehouse Storage Conditions of Product s

(1) Storage Conditions :

- a.Storage Temperature : -10℃~+40℃
- b.Relative Humidity : ≅75%RH
- c. Keep away from corrosive atmosphere and sunlight.

(2) Period of Storage : 1 year

Website: <http://www.jksemit.com>

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