



R48003-050

Features:

| |
|---|
| Size Radial |
| Lead Free and compliant with the European Union |
| Fast tripping resettable circuit protection |
| Surface mount packaging for automated assembly |

Technical Specifications:

I_h= Hold current maximum current device will pass without interruption in 25° C still air unless

I_t= Trip current: minimum current that will switch the device from low resistance, Resistance in 25°C still unless otherwise specified.

V_{max}= Maximum Voltage device can withstand without damage at rated current

V_{max. Interrupt}= Maximum interrupt voltage device can withstand without damage at current

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

Time-TO-TRIP= Maximum Time to trip (s) at assigned current.

P_{d typ}= Typical Power dissipation : typical amount of power dissipated by the device when in state air environment

R_{min}= Minimum device resistance at 25°C prior to tripping

R_{max}= Minimum device resistance at 25°C prior to tripping

R_{1max}= The maximum resistance of the device at 25°C 1hour after being tripped or after reflow soldering:

Thermal Derating chart-I H (A)

| Range | Maximum ambient operating temperature (°C) | | | | | | | | |
|-------|---|------|------|------|------|------|------|------|------|
| | -.40 | -.20 | 0 | 23 | 40 | 50 | 60 | 70 | 85 |
| 500mA | 0,83 | 0,74 | 0,63 | 0,50 | 0,41 | 0,36 | 0,30 | 0,25 | 0,18 |

Approval:



Radial POLY FUSE 60Volt

Part No.: **R48003-050**

Customer:

| | | | | | | | |
|-------|-------|------|--------|--------|--------|-------|------------|
| DRW: | Lexua | CHKD | Wilson | MATL: | ChuChu | DATE | 06.04.2009 |
| APPD: | Jimmy | | | FINISH | Josy | Sheet | 1 from 3 |

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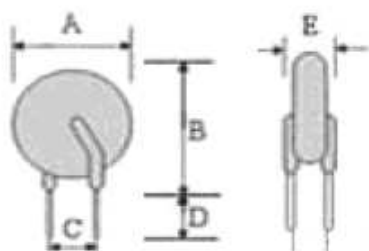


Technical Drawing and Informations

Dimensions

| A (mm) | | B (mm) | | C (mm) | | D (mm) | | E (mm) | |
|--------|-------------|--------|--------------|--------|-------------|--------|-------------|--------|-------------|
| Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| | 7,90 | | 13,70 | | 3,00 | | 7,60 | | 4,30 |
| | | | | | | | | | 5,80 |

Type 2



Performance Rating:

| Range | ICH | IT | V max | I m ax | Pd typ | Maximum Time to Trip | | Resistance: | | |
|-------|--------------|-------------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|
| | (A) | (A) | (V DC) | (A) | (W) | Current (A) | Time (Sec.) | Rmin (Ω) | Rmax (Ω) | R1max (Ω) |
| | 500mA | 0,50 | 1,00 | 60,0 | 40,0 | 0,77 | 2,5 | 4,0 | 0,50 | 0,77 |

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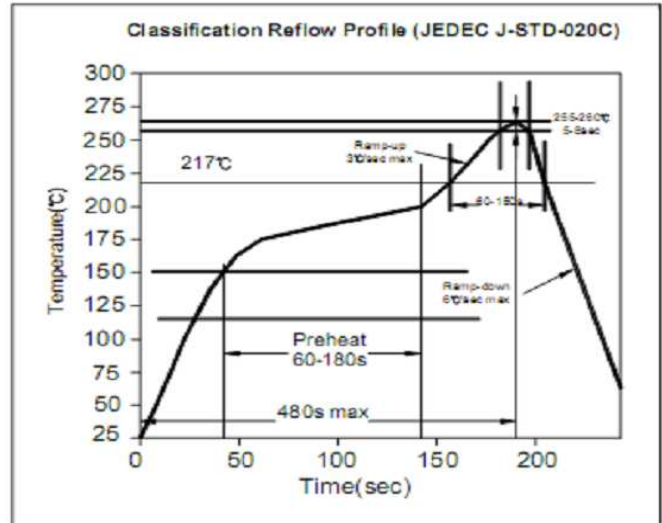


Soldering Information

Lead Solder Performance



Lead free Solder Performance



Ordering Informations:

| Item-No. & Range | ROHS | Packing |
|------------------|------|---------|
|------------------|------|---------|

| | | |
|-------------------|----------|-----------|
| R48003-050 | R | BU |
|-------------------|----------|-----------|

050 = 500mA

| | |
|---------------------|-----------------------------|
| R = ROHS | BU = Bulk / Standard |
| N = Non ROHS | TR = Tape / Reel |

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| APPD: | Jimmi | | | FINISH | Josi | Sheet | 3 from 3 |