

Electrical Specifications by Items

| Ampere Rating (A) | Amp Code | Interrupting Rating | Nominal Melting I ² t (A ² Sec.) | Minimum Cold Resistance at -20°C (Ohms) | Minimum Cold Resistance at -40°C (Ohms) | Nominal Cold Resistance at 25°C (Ohms) | Agency Approvals | | |
|-------------------|----------|---------------------------------|--|---|---|--|------------------|-----------|----|
| | | | | | | | Ex | IEC IECEx | RU |
| 0.062 | .062 | 50A @ 125 VAC 300A @ 125 VDC | 0.00011 | 4.89 | 4.39 | 7.00 | x | x | x |
| 0.125 | .125 | | 0.0012 | 1.35 | 1.26 | 1.70 | x | x | x |
| 0.250 | .250 | | 0.0095 | 0.51 | 0.48 | 0.665 | x | x | x |
| 0.375 | .375 | | 0.025 | 0.32 | 0.29 | 0.395 | x | x | x |
| 0.500 | .500 | | 0.0598 | 0.24 | 0.22 | 0.302 | x | x | x |
| 0.750 | .750 | | 0.153 | 0.14 | 0.12 | 0.175 | x | x | x |
| 1.00 | .001 | | 0.256 | 0.10 | 0.07 | 0.128 | x | x | x |
| 3.00 | .003 | 1.27 | 0.03 | 0.01 | 0.03 | x | x | x | |
| 5.00 | .005 | 50A @ 125 VAC 300A @ 63 VDC | 4.14 | 0.01 | 0.005 | 0.0158 | x | x | x |

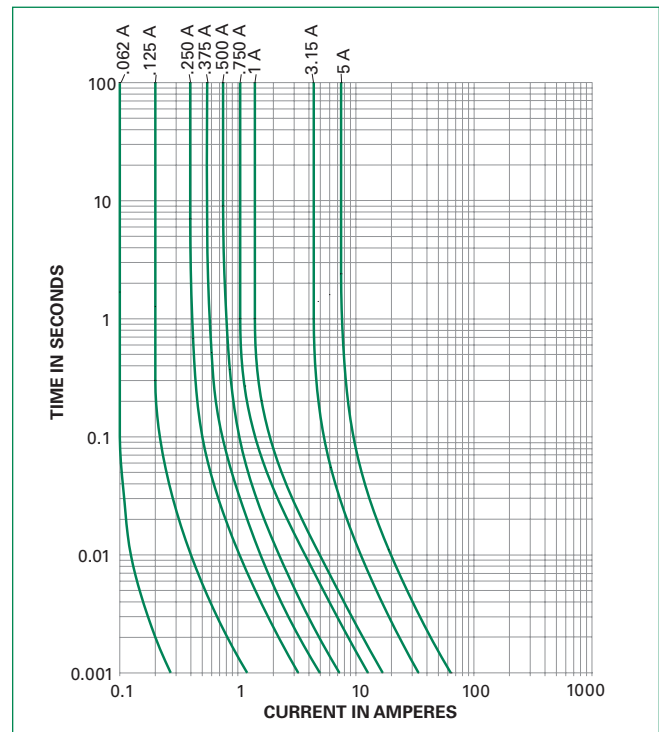
Schedule of limitations:

1. The fuse must be so mounted that creepage and clearance distances aren't impaired in any way.
2. The fuse is suitable for use in intrinsically safe equipment for voltages not exceeding 190V peak.
3. Maximum surface temperature rise at 170% rated current: $\leq 750\text{mA}=40^{\circ}\text{C}$, $1\text{A}=55^{\circ}\text{C}$, $3\text{A}=118^{\circ}\text{C}$ and $5\text{A}=135^{\circ}\text{C}$.

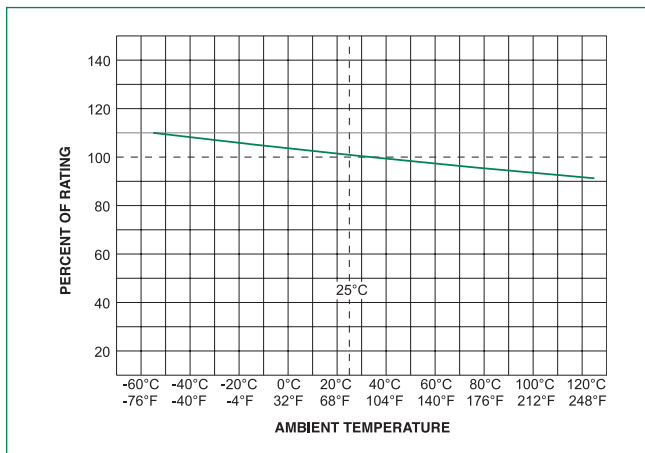
Product Characteristics

| | |
|--|--|
| Materials | Body : Polyamide Terminals - Tin Plated Copper Alloy Max. operating temperature of materials 130°C |
| Operating Temperature | Operating temperature depends on fuse rating and max. allowed fuse surface temperature. (Consider re-rating) |
| Thermal Shock | Withstands 5 cycles of - 55°C to 125°C |
| Vibration | Per MIL-STD-202, Method 201 |
| Insulation Resistance (After Opening) | Greater than 10,000 ohms |

Average Time Current Curves



Temperature Re-rating Curve



Note:

1. Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Soldering Parameters

Recommended Process Parameters:

| Wave Parameter | Lead-Free Recommendation |
|---|-----------------------------------|
| Preheat: (Depends on Flux Activation Temperature) | (Typical Industry Recommendation) |
| Temperature Minimum: | 100°C |
| Temperature Maximum: | 150°C |
| Preheat Time: | 60-180 seconds |
| Solder Pot Temperature: | 260°C Maximum |
| Solder Dwell Time: | 2-5 seconds |

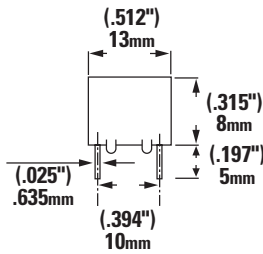
Recommended Hand Soldering Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process

Dimensions



Part Numbering System

0259.062M

Series

AMP Code

The dot is positioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings. Refer to Amp Code column in the Electrical Specifications table.

Packaging Code

M = Bulk pack, 1000 pcs
T = Bulk pack, 10 pcs

Example:

1 amp product is 0259001.M
(.062 amp product shown).

Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code |
|------------------|-------------------------|----------|---|
| Bulk | N/A | 1000 | M = Bulk 1000 pieces, T = Bulk 10 pieces Please refer to available quantities above in "Part Numbering System" |
| Bulk | N/A | 10 | |

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