

Axial Lead & Cartridge Fuses

5×20 mm > Fast-Acting > 617 Series

617 Series, 5 × 20 mm, Fast-acting Fuse



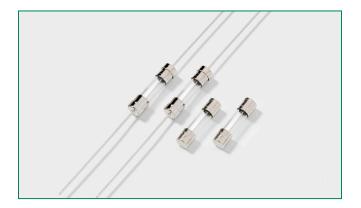












Agency Approvals

| Agency | Agency File Number | Ampere Range |
|-------------|--------------------|------------------------|
| (W) | 2002010207024438 | 0.4A-6.3A |
| A1 ° | E10480 | 0.4A-10A |
| (| 29862 | 0.4A-6.3A |
| DE | 40014952 | 0.4A-6.3A 8A*, 10A* |
| Œ | N/A | 0.4A-10A |

^{*}Approval for cartridge versions only

Description

5×20mm fast-acting glass body cartridge fuse designed to IEC specification.

Features

- Designed to International (IEC) Standards for use globally
- Meets the IEC 60127-2, Sheet 2 specification for fast-acting fuses
- · Available in cartridge and axial lead form
- RoHS compliant and lead-free

Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

| % of Ampere Rating Rating | | Opening Time | | | |
|---------------------------|-----------|-------------------------------|--|--|--|
| 1500/ | 0.4A-6.3A | 60 minutes, Minimum | | | |
| 150% | 8A-10A | 30 minutes, Minimum | | | |
| 210% | 0.4A-6.3A | 30 minutes, Maximum | | | |
| 210% | 8A-10A | 30 minutes, Maximum | | | |
| 2==0/ | 0.4A-6.3A | 0.05 sec., Min.; 2 sec. Max. | | | |
| 275% | 8A-10A | 0.05 sec., Min.; 2 sec. Max. | | | |
| 400% | 0.4A-6.3A | .01 sec., Min.; 0.3 sec. Max. | | | |
| 400 % | 8A-10A | .01 sec., Min.; 0.4 sec. Max. | | | |
| 1000% | 0.4A-6.3A | .02 second, Maximum | | | |
| | 8A-10A | .04 second, Maximum | | | |

Additional Information







Samples

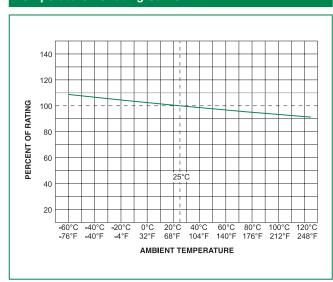


Electrical Characteristic Specifications by Item

| | Amp Rating Rating (V) | | | N : 10.11 | N | Maximum | Maximum | | Agen | су Арр | rovals | |
|------|-----------------------|-----|-------------|-----------------|-------------------------------------|----------|-----------|----------|------|--------|--------|----|
| | | | | Voltage Drop at | Power Dissipation At 1.5In(W) | @ | <i>91</i> | (| Œ | | | |
| .400 | 0.4 | 250 | | 0.2770 | 0.12500 | 1200 | 1.6 | Х | × | × | × | Х |
| .500 | 0.5 | 250 | | 0.2065 | 0.21500 | 1000 | 1.6 | Х | × | × | × | × |
| .630 | 0.63 | 250 | | 0.1900 | 0.41000 | 650 | 1.6 | X | × | × | × | × |
| .800 | 0.8 | 250 | | 0.1203 | 0.85000 | 240 | 1.6 | Х | × | × | × | Х |
| 001. | 1 | 250 | 35A@250Vac | 0.0964 | 1.04500 | 200 | 1.6 | Х | × | × | × | Х |
| 1.25 | 1.25 | 250 | 35A@250Vac | 0.0701 | 2.23000 | 200 | 1.6 | Х | × | × | × | Х |
| 01.6 | 1.6 | 250 | | 0.0528 | 4.61500 | 190 | 1.6 | X | × | × | × | X |
| 002. | 2 | 250 | | 0.0416 | 5.73000 | 170 | 1.6 | Х | × | × | × | Х |
| 02.5 | 2.5 | 250 | | 0.0334 | 9.46000 | 170 | 1.6 | Х | × | × | × | X |
| 3.15 | 3.15 | 250 | | 0.0224 | 17.72000 | 150 | 2.5 | Х | × | × | × | Х |
| 004. | 4 | 250 | 40A@250Vac | 0.0165 | 29.16500 | 130 | 2.5 | Х | × | × | × | Х |
| 005. | 5 | 250 | 50A@250Vac | 0.0137 | 42.79500 | 130 | 2.5 | Х | × | × | × | X |
| 06.3 | 6.3 | 250 | 63A@250Vac | 0.0095 | 62.46500 | 130 | 2.5 | Х | × | × | × | Х |
| 008. | 8 | 250 | 80A@250Vac | 0.0068 | 198.16000 | 130 | 4 | | × | | × | X* |
| 010. | 10 | 250 | 100A@250Vac | 0.0063 | 217.63500 | 130 | 4 | | Х | | × | x* |

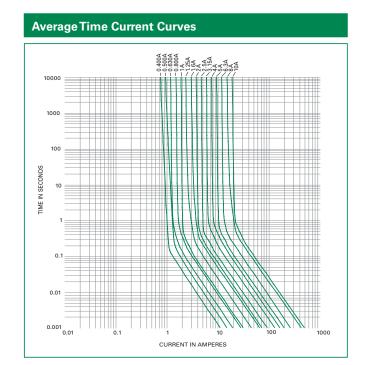
^{*} Approval for cartidge versions only.

Temperature Re-rating Curve



Note:

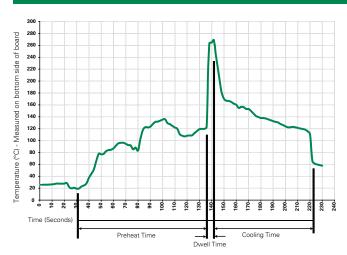
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.



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Soldering Parameters - Wave Soldering



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 DwellTime: | 2-5 seconds | | |

Recommended Hand-Solder 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.

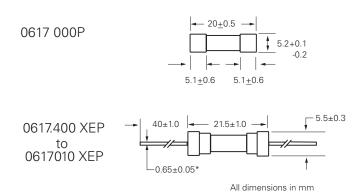
Product Characteristics

| Material | Body: Glass Cap: Nickel-plated brass Leads: Tin-plated Copper | | |
|-------------------|---|--|--|
| Terminal Strength | MIL-STD-202, Method 211, Test Condition A | | |
| Solderability | MIL-STD-202 method 208 | | |
| Product Marking | Cap1: Brand logo, current and voltage ratings Cap2: Agency approval marks | | |
| Packaging | Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel) | | |

| Operating Temperature | −55°C to +125°C | | |
|-----------------------|--|--|--|
| Thermal Shock | MIL-STD-202, Method 107, Test Condition B: (5 cycles –65°C to +125°C) | | |
| Vibration | MIL-STD-202, Method 201 | | |
| Humidity | MIL-STD-202, Method 103, Test Condition A. high RH (95%) and elevated temperature (40°C) for 240 hours. | | |
| Salt Spray | MIL-STD-202, Method 101, Test Condition B | | |

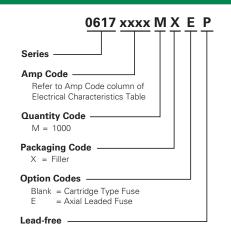


Dimensions



Notes:

Part Numbering System



| Packaging | | | | | | | | |
|------------------|-------------------------|----------|------------------------------|------------------|--|--|--|--|
| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width | | | | |
| 617 Series | | | | | | | | |
| Bulk | N/A | 1000 | MX | N/A | | | | |
| Bulk | N/A | 1000 | MXE | N/A | | | | |
| Reel and Tape | EIA 296-E | 1000 | MRET1 | T1=53mm (2.087") | | | | |
| Bulk | N/A | 1000 | MXG | N/A | | | | |
| Bulk | N/A | 1000 | MXB | N/A | | | | |
| Bulk | N/A | 100 | HX | N/A | | | | |

^{*} Ratings above 6.3A have 0.8 ± 0.05 diameter lead.

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