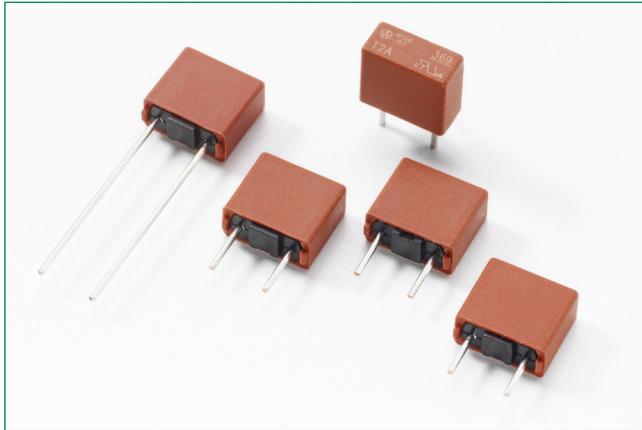


369 Series

TE5® Time-Lag Fuse



Description

The 369 Series are TE5® Time-Lag Fuses, 300V rated and designed in accordance to IEC 60127-3.

Features

- Halogen free, Lead-free and RoHS compliant
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Conforms to EN/J 60127-1 and EN/J 60127-3

Agency Approvals

| Agency | Agency File/Certificate Number | Ampere Range |
|--------|--------------------------------|---------------|
| | E67006 | 0.800A - 6.3A |
| | JET 1896-31007-2002 | 1A - 5A |
| | 40037351 | 1A - 6.3A |

Applications

- Electronic Ballast

Electrical Characteristics

| % of Ampere Rating | Opening Time |
|--------------------|------------------------------|
| 150% | 1 Hour, Minimum |
| 210% | 120 sec., Maximum |
| 275% | 400 ms., Min.; 10 sec., Max. |
| 400% | 150 ms., Min.; 3 sec., Max. |
| 1000% | 20 ms., Min.; 150 ms., Max. |

Additional Information



Resources



Accessories



Samples

Electrical Characteristics

| Amp Code | Amp Rating, I _n (A) | Voltage Rating (V) | Breaking Capacity | Nominal Cold Resistance (Ohms) ¹ | Voltage Drop 1.0 × I _N max. (mV) | Power Dissipation 1.5 × I _N max. (mW) | Melting Integral 10 × I _N max. (A2s) | Agency Approvals | | |
|----------|--------------------------------|--------------------|-------------------|---|---|--|---|------------------|---|---|
| | | | | | | | | | | |
| 0800 | 0.800 | 300 | 50A @300VAC | 0.0960 | 110 | 280 | 5.1200 | x | | |
| 1100 | 1.00 | 300 | | 0.0715 | 115 | 400 | 8.0000 | x | x | x |
| 1160 | 1.60 | 300 | | 0.0400 | 95 | 600 | 18.4320 | x | x | x |
| 1200 | 2.00 | 300 | | 0.0298 | 90 | 700 | 29.0000 | x | x | x |
| 1315 | 3.15 | 300 | | 0.0170 | 80 | 1100 | 78.3880 | x | x | x |
| 1400 | 4.00 | 300 | | 0.0128 | 75 | 1200 | 126.4000 | x | x | x |
| 1500 | 5.00 | 300 | | 0.0101 | 70 | 1000 | 106.2500 | x | x | x |
| 1630 | 6.30 | 300 | | 0.0077 | 65 | 1200 | 160.7400 | x | | x |

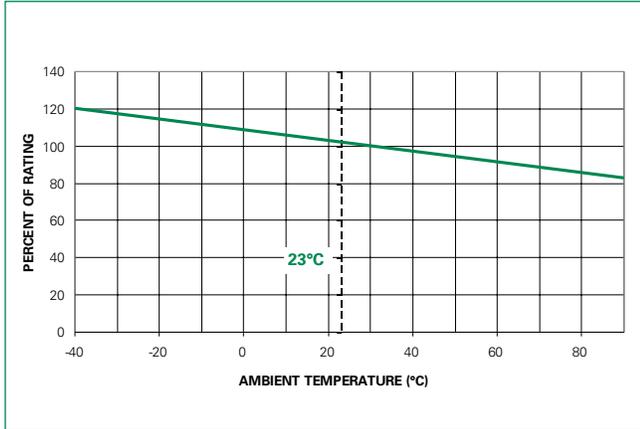
Note:

1. Resistance is measured at 10% of rated current, 25°C.

369 Series

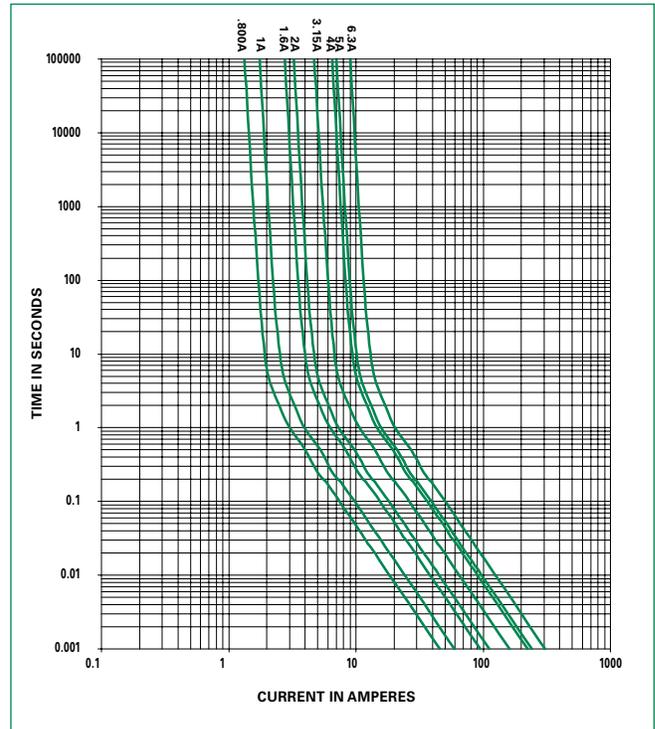
TE5® Time-Lag Fuse

Temperature Re-rating Curve

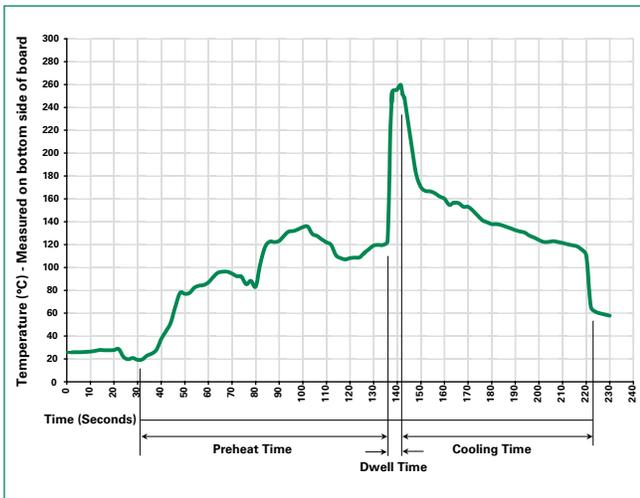


Note:
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



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 Dwell Time: | 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.

369 Series

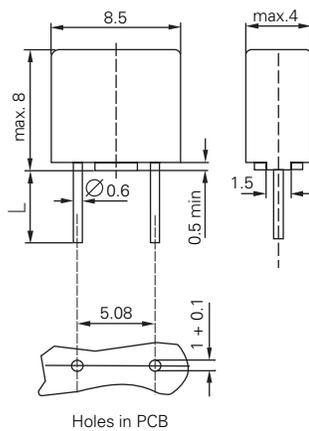
TE5® Time-Lag Fuse

Product Characteristics

| | |
|----------------------------------|--|
| Materials | Base/Cap: Black/Brown Thermoplastic Polyamide PA 6.6, UL 94 V0 Round Pins: Tin-plated Copper |
| Lead Pull Strength | 10N (IEC 60068-2-21) |
| Solderability | 260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron) |
| Soldering Heat Resistance | 260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron) |

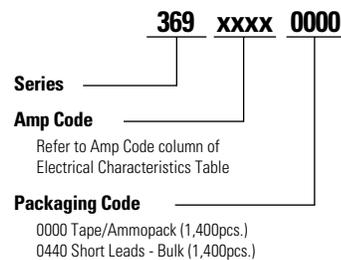
| | |
|------------------------------|--|
| Operating Temperature | -40°C to +85°C (consider re-rating) |
| Climatic Category | -40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-2-78) |
| Stock Conditions | +10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95% |
| Vibration Resistance | 24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration |

Dimensions (mm)



Long Leads (L=18.8mm)
Short Leads (L=4.3mm)

Part Numbering System



Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| 369 Series | | | | |
| Tape & Ampack | N/A | 1,400 | 0000 | N/A |
| Short Leads | N/A | 1,400 | 0440 | N/A |

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