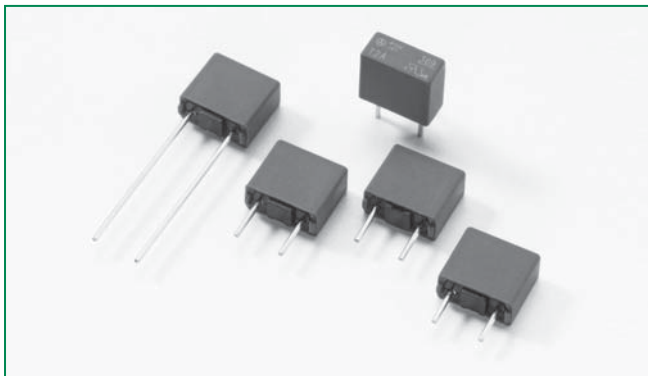


RoHS **Pb** **369 Series, TE5®, Time-Lag Fuse**



**Agency Approvals**

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

**Description**

TE5®, Time-lag type, 300V rated and designed in accordance to IEC60127-3.

**Features**

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shocksafe casing
- Vibration resistant
- Halogen free

**Applications**

- Electronic Ballast

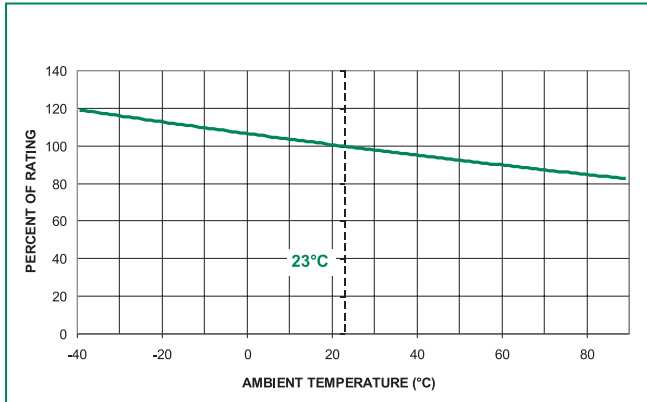
**Electrical Characteristics for Series**

| % 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.  |

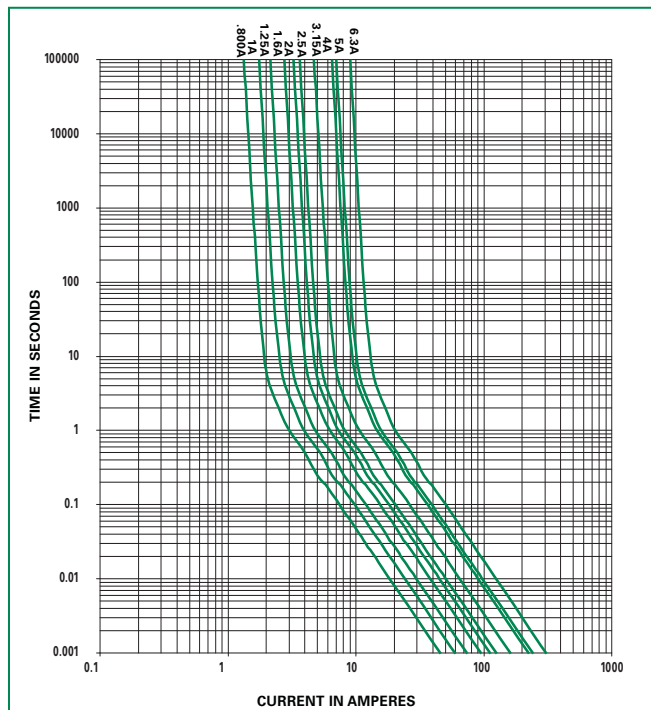
**Electrical Characteristics Specifications by Item**

| Amp Code | Amp Rating (A) | Voltage Rating (V) | Breaking Capacity              | Voltage Drop 1.0 x I <sub>N</sub> max. (mV) | Power Dissipation 1.5 x I <sub>N</sub> max. (mW) | Melting Integral 10 x I <sub>N</sub> min. (A²s) | Agency Approvals |   |
|----------|----------------|--------------------|--------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------------------|------------------|---|
|          |                |                    |                                |                                             |                                                  |                                                 |                  |   |
| 1100     | 1.00           | 300                | 50A@300VAC<br>50-60Hz/cosφ = 1 | 115                                         | 400                                              | 5.80                                            | X                | X |
| 1160     | 1.60           | 300                |                                | 95                                          | 600                                              | 13.50                                           | X                | X |
| 1200     | 2.00           | 300                |                                | 90                                          | 700                                              | 21.00                                           | X                | X |
| 1315     | 3.15           | 300                |                                | 80                                          | 1100                                             | 55.00                                           | X                | X |
| 1400     | 4.00           | 300                |                                | 75                                          | 1200                                             | 100.00                                          | X                | X |
| 1500     | 5.00           | 300                |                                | 70                                          | 1000                                             | 90.00                                           | X                | X |
| 1630     | 6.30           | 300                |                                | 65                                          | 1200                                             | 126.00                                          | X                |   |

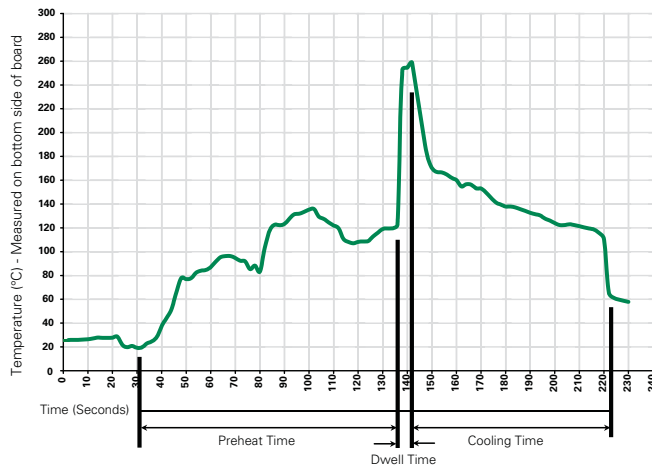
## Temperature Derating Curve



## Average Time Current Curves



## Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

| Wave Parameter                                              | Lead-Free Recommendation          |
|-------------------------------------------------------------|-----------------------------------|
| <b>Preheat:</b><br>(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.

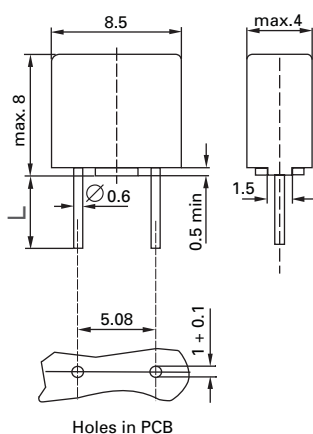
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| <b>Materials</b>                 | Base/Cap: Brown Thermoplastic<br>Polyamide PA6.6, UL 94 V0<br>Round Pins: Tin-plated Copper |
| <b>Lead Pull Strength</b>        | 10 N (IEC 60068-2-21)                                                                       |
| <b>Solderability</b>             | 260°C, ≤ 3s (Wave)<br>350°C, ≤ 1s (Soldering Iron)                                          |
| <b>Soldering Heat Resistance</b> | 260°C, 10s (IEC60068-2-20)<br>350°C, 3s (Soldering Iron)                                    |

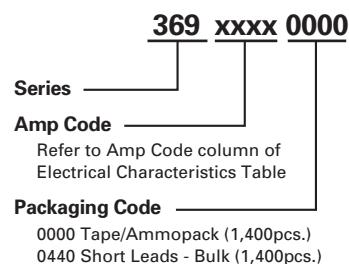
|                              |                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b> | -40°C to +85°C (considerde-rating)                                                                            |
| <b>Climatic Category</b>     | -40°C / +85°C / 21days<br>(EN60068-1,-2-1,-2-2,-2-78)                                                         |
| <b>Stock Condition</b>       | +10°C to +60°C<br>relative humidity 75% yearly average,<br>without dew, maximum value for 30 days-95%         |
| <b>Vibration Resistance</b>  | 24 cycles at 15min. Each (EN60068-2-6)<br>10 - 60 Hz at 0.75 mm amplitude<br>60 - 2000 Hz at 10g acceleration |

### Dimensions



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

### Part Numbering System



### Packaging

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