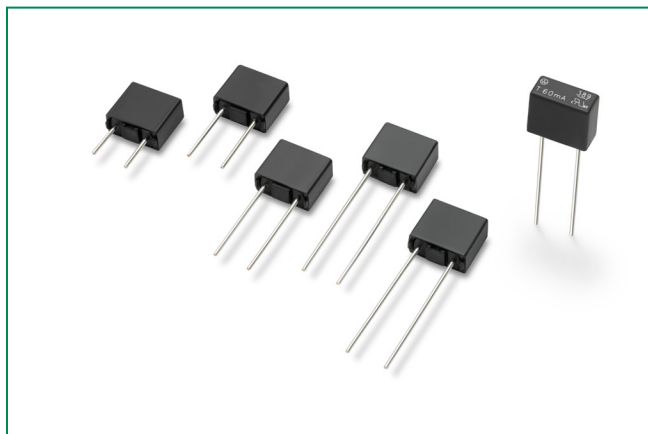


# 389 Series

## TE5® Fuse, Time-Lag



### Description

The 389 Series are TE5®, Time-Lag type, 250V rated fuses. They are specifically designed for short circuit protection of sensitive electronic components and assemblies

### Features

- Reduced PCB space requirements
- Highly defined cut-off times
- Low internal resistance
- Flame resistant encapsulated casing
- RoHS compliant and Lead-free

### Additional Information



Resources



Accessories



Samples

### Agency Approvals

Agency	Agency File Number	Ampere Range
US	E67006	0.060A

### Applications

- Telecom equipment
- Data processing equipment
- Input/output modules
- Household appliances
- Medical equipment

### Electrical Characteristics

% of Ampere Rating	Opening Time
166	600 sec, <b>Min.</b>
250	45 sec, <b>Max.</b>

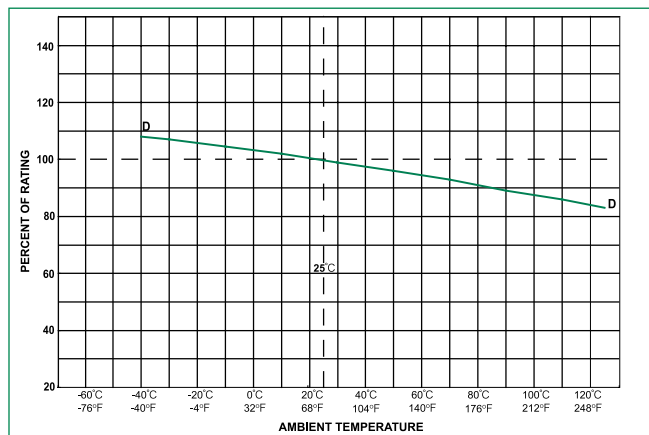
### Electrical Characteristics

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Cold Resistance 0.1In (mΩ)	Power Dissipation (mW)	Melting Integral 10In (A²s)	US
0060	60mA	250 VAC	10A@250VAC	6080	100	0.033	E67006

# 389 Series

## TE5® Fuse, Time-Lag

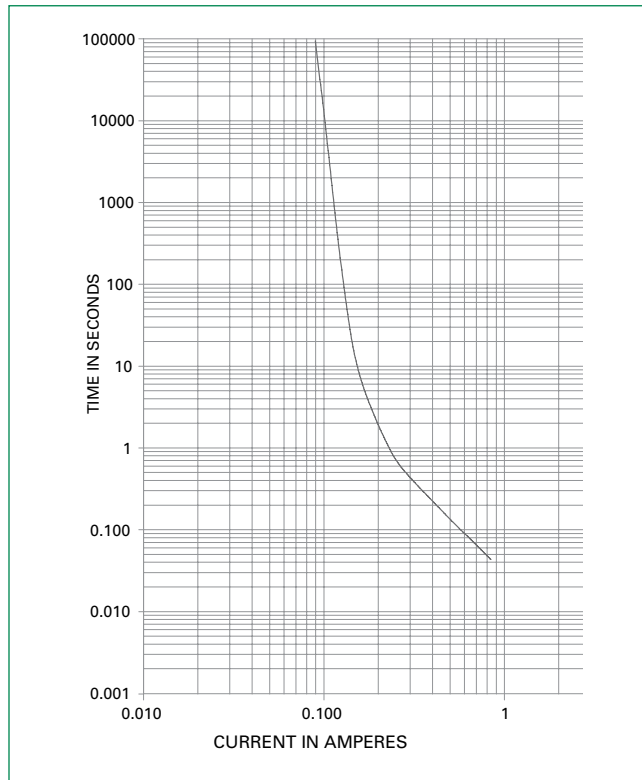
### Temperature Re-rating Curve



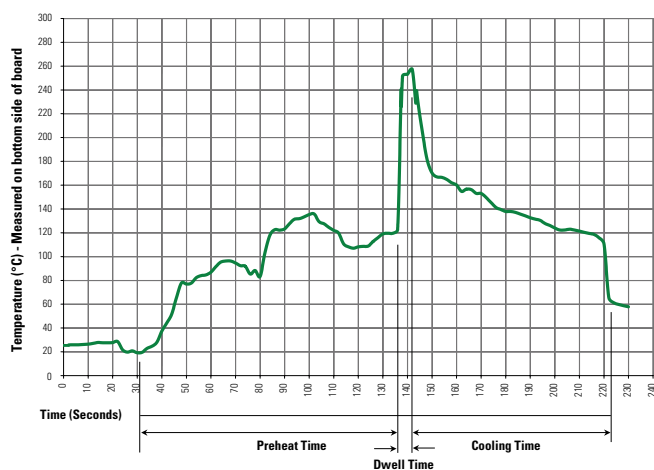
#### Note:

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:	280°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.

# 389 Series

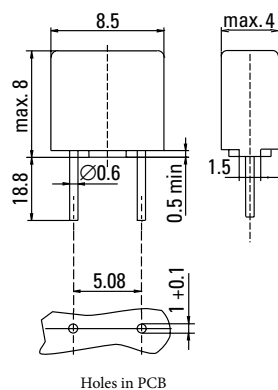
## TE5® Fuse, Time-Lag

### Product Characteristics

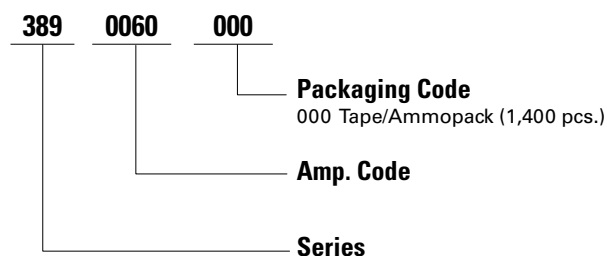
<b>Materials</b>	Base/Cap: Black Thermoplastic Polyamide PA 66, UL 94V-0 Round Pins: Copper, Tin-plated
<b>Lead Pull Strength</b>	10N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3 sec. (Wave) 350°C, ≤ 1 sec. (Hand)
<b>Soldering Heat Resistance</b>	260°C, 10 sec. (IEC 60068-2-20)

<b>Operating Temperature</b>	–40°C to +125°C (consider re-rating)
<b>Climatic Category</b>	–25°C/+70°C/21 days (IEC 60068-1.3)
<b>Stock Conditions</b>	+10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (IEC 60068-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

Dimensions (mm)



Part Numbering System



### Packaging

Packaging Code	Packing Option	Quantity
000	Tape/Ammopack	1400

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