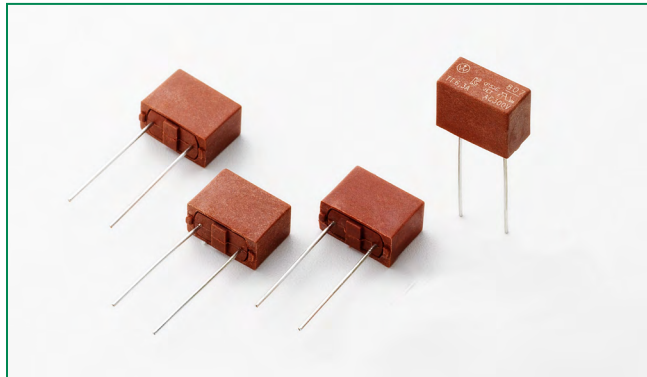





### 807 Series Fuse



#### Agency Approvals

Agency	Agency File Number	Ampere Range
	E67006	0.80A – 6.3A
	SU05024-10005 SU05024-10004 SU05024-10006	0.8A 1-2.5A 3.15-6.3A
	JET1896-31007-2004 JET1896-31007-2005	1A - 5A 6.30A

#### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
125%	3600 secs., <b>Minimum</b>
200%	120 secs., <b>Maximum</b>
1000%	100 milliseconds <b>Minimum</b> 1 secs., <b>Maximum</b>

#### Description

TE7 807 Series is a time-lag type subminiature fuse designed for overcurrent protection.

#### Features

- Lead-free, Halogen-free and RoHS compliant
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Excellent surge tolerance due to high  $i^2t$  values

#### Applications

- Battery Charger
- Consumer Electronics
- Power Supplies
- Industrial Controllers

#### Additional Information



[Datasheet](#)






[Resources](#)



[Samples](#)

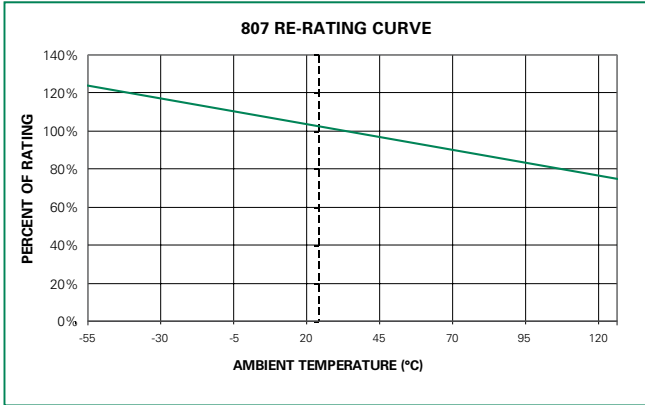
#### Electrical Characteristic Specifications by Item

Amp Code	Amp Rating	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Voltage Drop $1.0 \times I_N$ max [mV]	Power Dissipation $1.25 \times I_N$ max [mW]	Melting Integral $10 \times I_N$ max [A <sup>2</sup> s]	Agency Approvals		
										
0800	0.80A	300V	100A @300VAC	0.1887	218	332	12.480	x	x	
1100	1.00A	300V		0.1166	171	324	20.000	x	x	x
1125	1.25A	300V		0.0816	151	352	30.00	x	x	x
1160	1.60A	300V		0.0569	135	464	51.00	x	x	x
1200	2.00A	300V		0.0458	183	486	88.00	x	x	x
1250	2.50A	300V		0.0349	118	675	137.50	x	x	x
1315	3.15A	300V		0.0228	163	818	212.94	x	x	x
1400	4.00A	300V		0.0174	128	945	368.00	x	x	x
1500	5.00A	300V		0.0138	98	1091	748.00	x	x	x
1630	6.30A	300V		0.0100	78	1125	1099.00	x	x	x

Note:

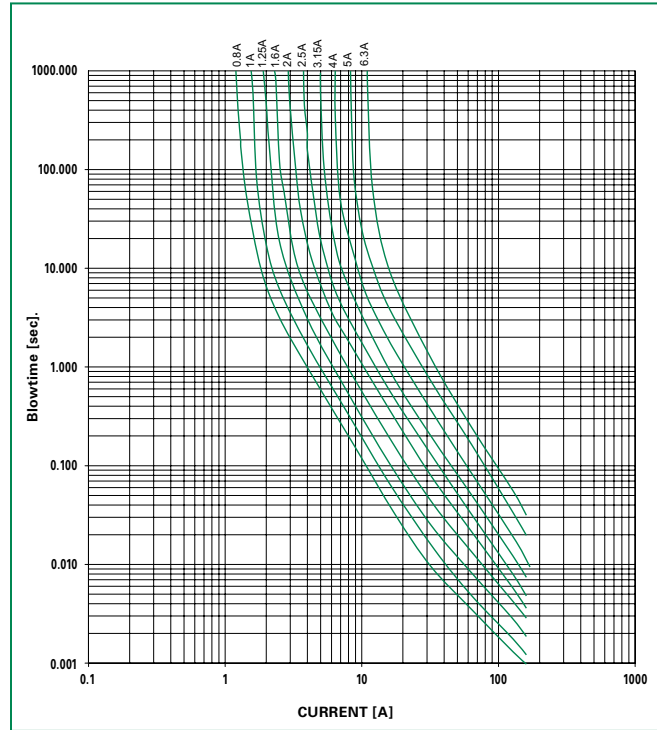
1. Resistance is measured at 10% of rated current, 25°C.

**Temperature De-rating Curve**

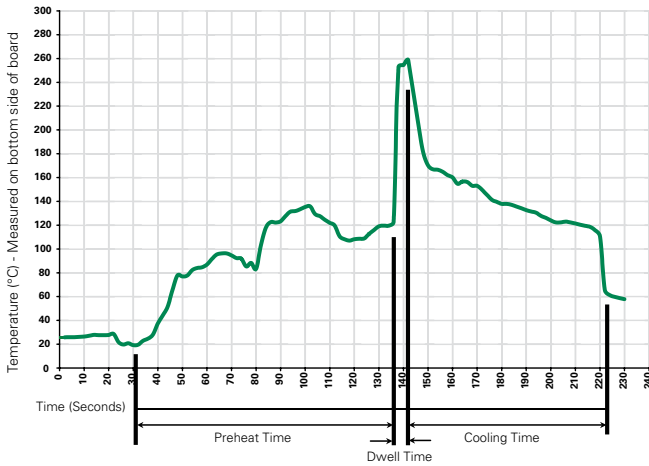


Note:  
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**Average Time Current Curves**



**Soldering Parameters - Wave Soldering**



**Recommended Process Parameters:**

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

**Recommended Hand-Solder Parameters:**

Solder Iron Temperature: 350°C ± 5°C  
Heating Time: 5 seconds maximum

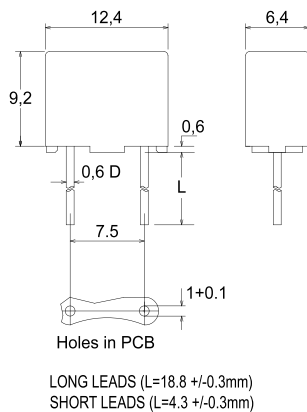
**Note: These devices are not recommended for IR or Convection Reflow Process.**

## Product Characteristics

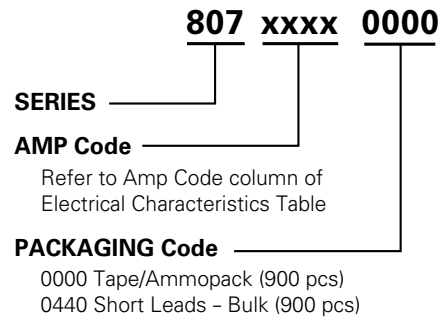
<b>Materials</b>	<b>Base/Cap:</b> Brown Thermoplastic Polyamide, UL 94V-0 <b>Round Pins:</b> Copper, Sn Plated
<b>Lead Pull Strength</b>	10 N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3s (Wave) 350°C, ≤ 1s (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s (IEC 60068-2-20) 350°C, 3s (Soldering Iron)

<b>Operating Temperature</b>	-40°C to +125°C (Consider re-rating)
<b>Climatic Category</b>	-40°C/+85°C/21 days (IEC 60068-1, -2-1, -2-2, -2-78)
<b>Stock Conditions</b>	+10°C to +60°C relative humidity 75% yearly average, without dew, maximum value for 30 days – 95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (IEC60028-2-6) 10 - 60Hz at 0.75mm amplitude 20 - 2000Hz at 10g acceleration

## Dimensions



## Part Numbering System



## Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
<b>807 Series</b>				
Tape & Ammopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0440	N/A