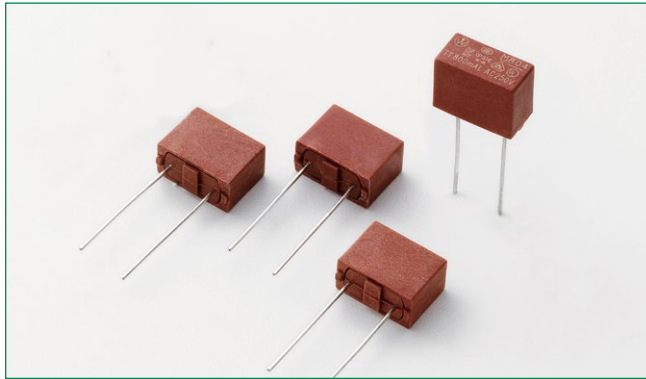


804 Series Fuse, TE, Time-Lag Fuse



**Description**

The 804 Series is a TE Universal Modular Fuse (UMF), TT time-lag type subminiature fuse designed for overcurrent protection. It is 250V rated and designed in accordance to IEC 60127-4.

**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
- Listed to IEC 60127-1 and IEC 60127-4
- Approved to EN 60127-1 and EN 60127-7
- Approved to GB 9364.1 and GB 9364.4
- Approved to J60127-1 and J60127-4
- Approved to K60127-1 and K60127-4

**Applications**

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

**Agency Approvals**

Agency	Agency File Number	Ampere Range
	E242325	0.8A – 6.3A
	40029388	0.8A – 6.3A
	CQC10012048703	0.8A - 6.3A
	NBK180518-JP1021A NBK180518-JP1021B NBK180518-JP1021C	1A – 2.5A 3.15A – 5A 6.3A
	SU05024-10005 SU05024-10004 SU05024-10006	0.8A 1A - 2.5A 3.15A - 6.3A

**Additional Information**



Datasheet



Resources



Samples

**Electrical Characteristics**

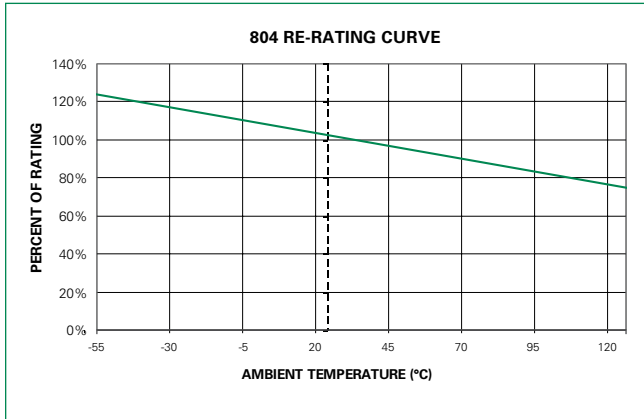
% of Ampere Rating	Opening Time
125%	3600 sec <b>Minimum</b>
200%	120 sec <b>Maximum</b>
1000%	100 milliseconds <b>Minimum</b> 1 sec <b>Maximum</b>

**Electrical Characteristics**

Amp Code	Ampere Rating	Rated Voltage	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	250V	150A @250VAC	0.1887	218	332	12.480	x	x	x	x	
1100	1.00A	250V		0.1166	171	324	20.000	x	x	x	x	x
1125	1.25A	250V		0.0816	151	352	30.00	x	x	x	x	x
1160	1.60A	250V		0.0569	135	464	51.00	x	x	x	x	x
1200	2.00A	250V		0.0458	183	486	88.00	x	x	x	x	x
1250	2.50A	250V		0.0349	118	675	137.50	x	x	x	x	x
1315	3.15A	250V		0.0228	163	818	212.94	x	x	x	x	x
1400	4.00A	250V		0.0174	128	945	368.00	x	x	x	x	x
1500	5.00A	250V		0.0138	98	1091	748.00	x	x	x	x	x
1630	6.30A	250V		0.0100	78	1125	1099.00	x	x	x	x	x

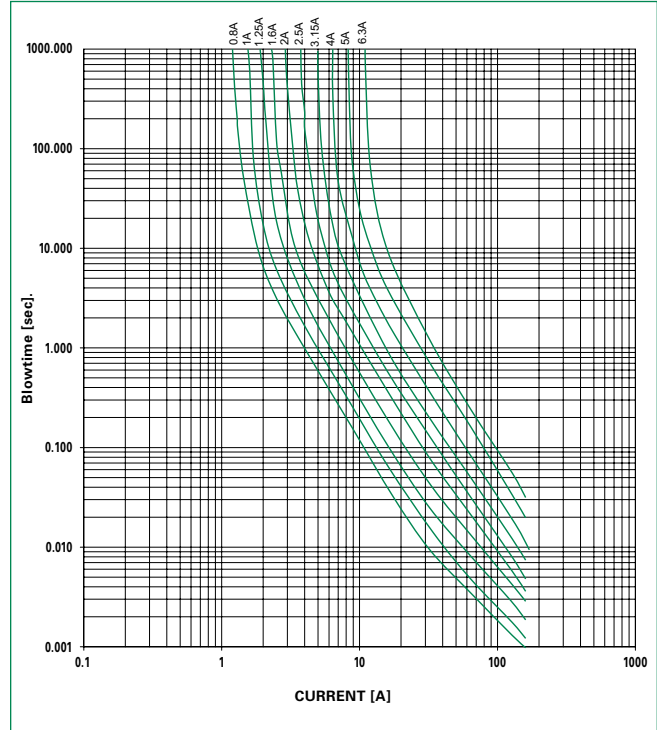
**Note:**  
1. Resistance is measured at 10% of rated current, 25°C.

**Temperature Re-rating Curve**

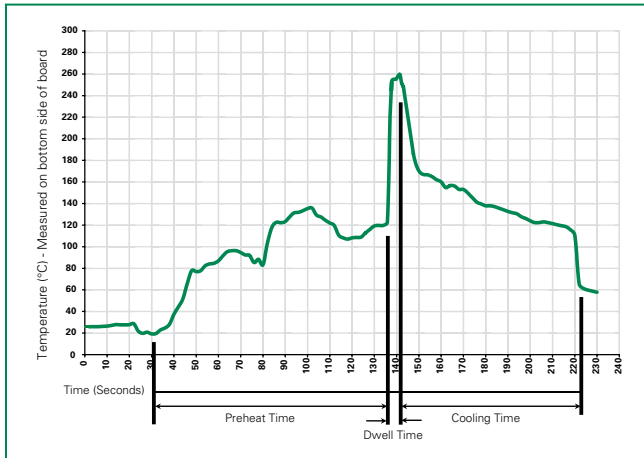


**Note:**  
1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**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.

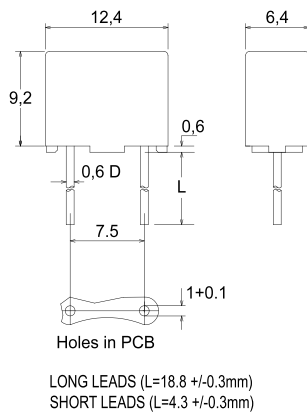
**Note: These devices are not recommended for IR or Convection Reflow process.**

**Product Characteristics**

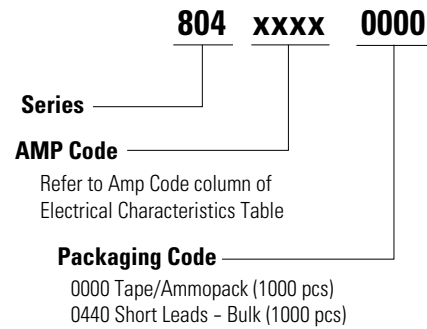
<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide, UL 94V-0 Round Pins: Copper, Sn Plated
<b>Lead Pull Strength</b>	10 N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

<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 (IEC 60068-2-6) 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>804 Series</b>				
Tape & Ampopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0440	N/A