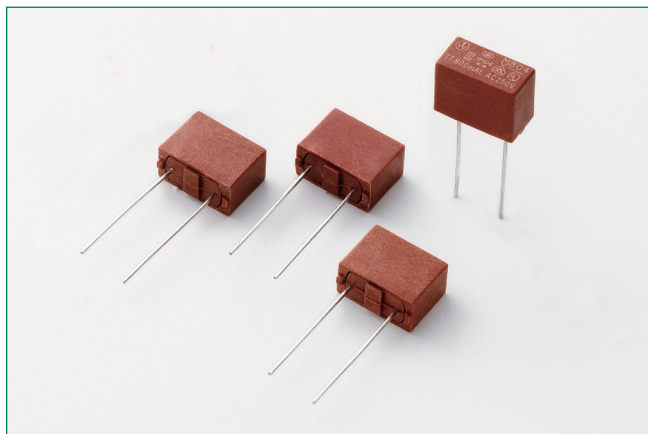


# 804 Series

## Time-Lag Fuse



### Additional Information



Resources



Accessories



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>

### 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 & Benefits

- 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<sup>2</sup>t 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
UL M	E242325	0.8A – 6.3A
DVE	40029388	0.8A – 6.3A
CEC	CQC10012048703	0.8A - 6.3A
PS E	NBK180518-JP1021A NBK180518-JP1021B NBK180518-JP1021C	1A – 2.5A 3.15A – 5A 6.3A
UKCA	SU05024-10005 SU05024-10004 SU05024-10006	0.8A 1A - 2.5A 3.15A - 6.3A
UKCA	NA	0.8A – 6.3A
CE	NA	0.8A – 6.3A

### Electrical Characteristics

Amp Code	Ampere Rating	Rated Voltage	Interrupting Rating	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0xI <sub>N</sub> max [mV]	Power Dissipation 1.25xI <sub>N</sub> max [mW]	Melting Integral 10xI <sub>N</sub> max [A <sup>2</sup> s]	Agency Approvals						
								CE	UKCA	UL	M	DVE	CEC	PS E
0800	0.80A	250V	150A @250VAC	0.1887	218	332	12.480	x	x	x	x	x	x	-
1100	1.00A	250V		0.1166	171	324	20.000	x	x	x	x	x	x	x
1125	1.25A	250V		0.0816	151	352	30.00	x	x	x	x	x	x	x
1160	1.60A	250V		0.0569	135	464	51.00	x	x	x	x	x	x	x
1200	2.00A	250V		0.0458	183	486	88.00	x	x	x	x	x	x	x
1250	2.50A	250V		0.0349	118	675	137.50	x	x	x	x	x	x	x
1315	3.15A	250V		0.0228	163	818	212.94	x	x	x	x	x	x	x
1400	4.00A	250V		0.0174	128	945	368.00	x	x	x	x	x	x	x
1500	5.00A	250V		0.0138	98	1091	748.00	x	x	x	x	x	x	x
1630	6.30A	250V		0.0100	78	1125	1099.00	x	x	x	x	x	x	x

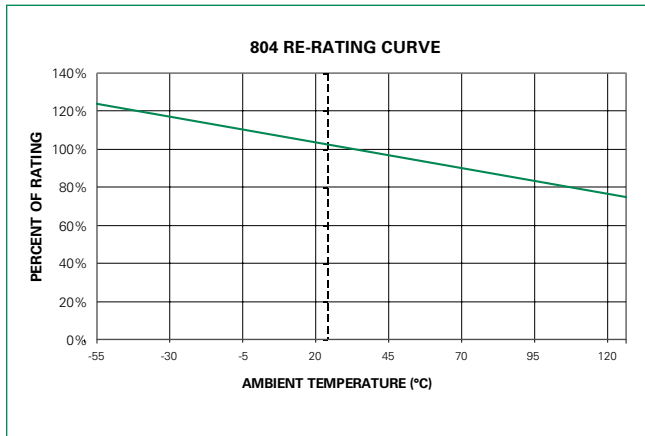
Note:

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

# 804 Series

## Time-Lag Fuse

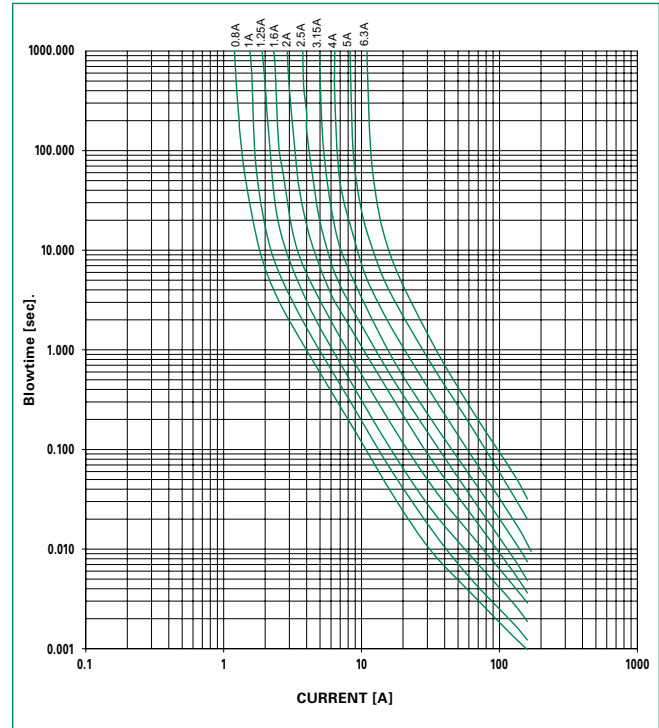
### Temperature Re-rating Curve



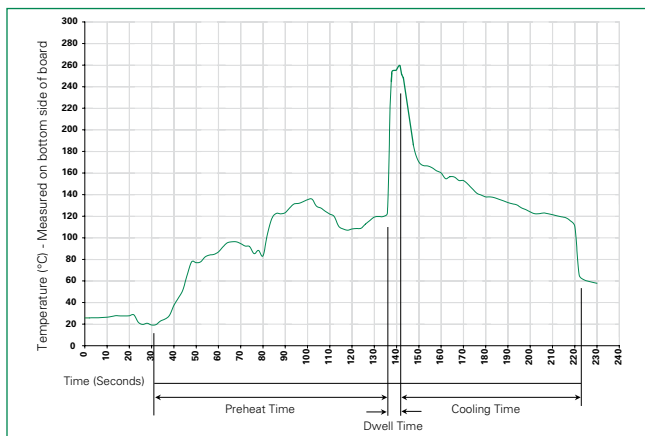
**Note:**

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.

# 804 Series

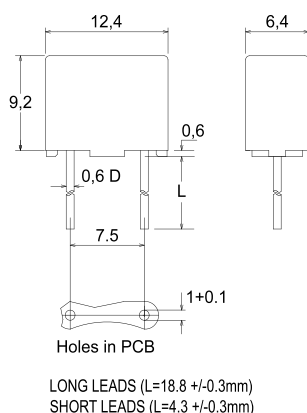
## Time-Lag Fuse

### Product Characteristics

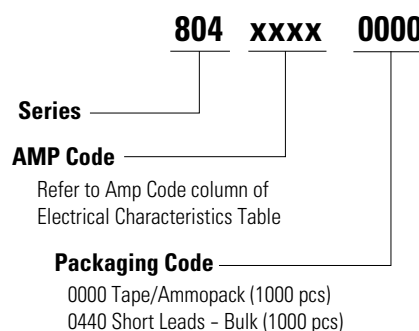
<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide, UL 94V-0 Round Pins: Copper, Sn Plated
<b>Lead Pull Strength</b>	10 N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

<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 (mm)



### Part Numbering System



### Packaging

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

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