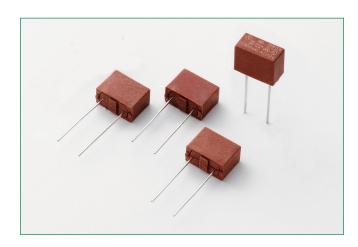
# **804 Series** TE, Time-Lag Fuse





## **Additional Information**







Resources

Accessories

Samples

## **Agency Approvals**

Agency	Agency File Number	Ampere Range		
ŴМ	E242325	0.8A - 6.3A		
<b>D</b> VE	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		
SU05024-10005 SU05024-10004 SU05024-10006		0.8A 1A - 2.5A 3.15A - 6.3A		

## **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 i2t 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

### **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	Amp Ampere		Rated Interrupting		Voltage Drop	Power Dissipation 1.25×I <sub>N</sub> max [mW]	Melting Integral 10×I <sub>N</sub> max [A <sup>2</sup> s]	Agency Approvals				
	Rating		Rating	Resistance 1.0×I <sub>N</sub> (Ohms) max [mV]				M	$\bigcirc D^{\!$	œc	PS	
0800	0.80A	250V		0.1887	218	332	12.480	Х	×	X	X	
1100	1.00A	250V		0.1166	171	324	20.000	Х	X	X	X	X
1125	1.25A	250V		0.0816	151	352	30.00	X	×	X	X	X
1160	1.60A	250V		0.0569	135	464	51.00	Х	×	X	X	X
1200	2.00A	250V	150A	0.0458	183	486	88.00	Х	X	X	X	X
1250	2.50A	250V	@250VAC	0.0349	118	675	137.50	Х	×	X	X	X
1315	3.15A	250V		0.0228	163	818	212.94	Х	×	X	X	X
1400	4.00A	250V		0.0174	128	945	368.00	Х	X	X	X	X
1500	5.00A	250V		0.0138	98	1091	748.00	Х	Х	X	X	X
1630	6.30A	250V		0.0100	78	1125	1099.00	Х	Х	X	X	X

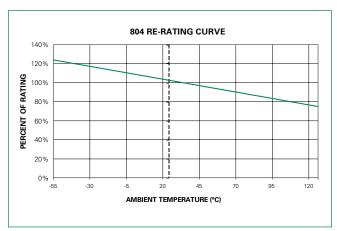
Note:

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



# **804 Series** TE, Time-Lag Fuse

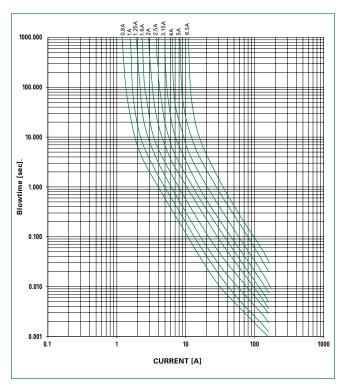
# **Temperature Re-rating Curve**



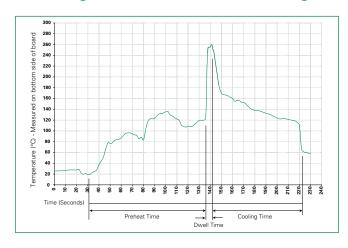
#### Note:

 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:	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.



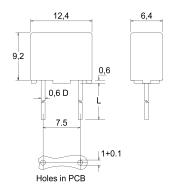
# **804 Series** TE, Time-Lag Fuse

## **Product Characteristics**

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

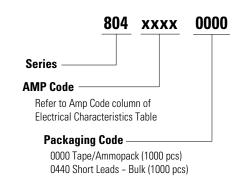
Operating Temperature	-40°C to +125°C (Consider re-rating)			
Climatic Category	-40°C/+85°C/21 days (IEC 60068-1, -2-1, -2-2, -2-78)			
Stock Conditions	+10°C to +60°C relative humidity 75% yearly average, without dew, maximum value for 30 days – 95%			
Vibration Resistance	24 cycles at 15 min. each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

### **Dimensions** (mm)



LONG LEADS (L=18.8 +/-0.3mm) SHORT LEADS (L=4.3 +/-0.3mm)

## **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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