827 Series

High Voltage Cartridge Fuses





Web Resources



Download ECAD models, order samples, and find technical recources at www.littelfuse.com

Agency Approvals

Agency	Agency File Number	Ampere Range
c Al lus	E10480	40A - 50A

Description

The 827 Series fuses are specifically designed for ciruit protection needs of compact auto-electronics applications. This series is rated 800Vdc with remarkable interrupting rating.

Features and Benefits

- Available in Through Hole and Bolt Down version
- RoHS compliant and lead-free
- AEC-Q200 Qualified

Applications

- On Board Charger
- Power Distribution Unit

Electrical Characteristics

% of Ampere Rating	Opening Time at 25°C
100%	4hrs, Min.
135%	3600 seconds, Max.

Electrical Specifications

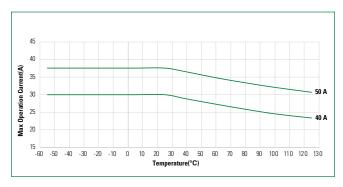
Amp	Ampere Rating	Voltage Rating	Interrupting	Nominal Cold Resistance	I²t (A²sec)	Agency Approvals
Code (A)		Rating	(mOhm)		c Fl us	
040.	40 A	800Vdc	10KA@ 800Vdc	2.04	4970	X
050.	50 A		TURAW OUUVUC	1.57	7056	X

Note: Unless otherwise stated, all specifications are referenced at room ambient temperature.



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Max Operation Current Curve

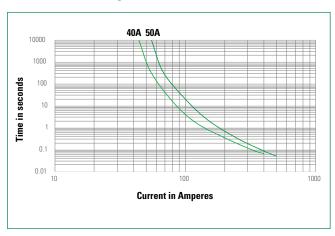


Note: Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

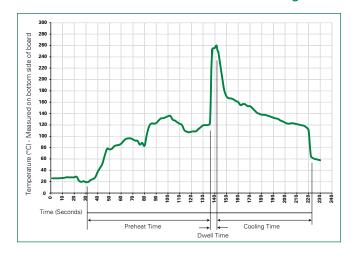
Product Characteristics

Materials	Body: Glass fiber Cap: Tin plated copper alloy/Ni plated copper alloy
Mechanical Shock	MIL-STD-202 Method 213
Vibration	MIL-STD-202 Method 204
Thermal Shock	JESD22-A104
Solderability	JESD22-B102E Method 1
Resistance to Solder Heat	MIL-STD-202 Method 210
Operating Temperature	-55°C to +125°C
Product Marking	Brand logo, current and voltage ratings

Average Time Current Curves



Soldering Parameters-Wave Soldering



Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flex 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

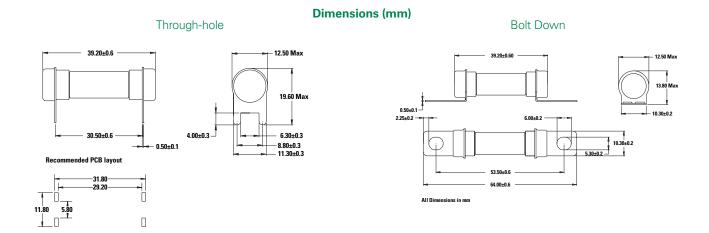
Recommended Hand-Solder Parameters:

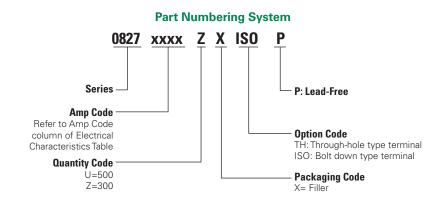
Solder Iron Temperature: 350 °C +/- 5 °C

 $\label{eq:heatingTime:} \mbox{ Heating Time: 5 seconds max.} \\ \mbox{ Note: These devices are not recommended for IR or Convection Reflow process.} \\$



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Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
827 Though Hole Version				
Tray	NA	500	UXTH	NA
827 Bolt Down Version				
Tray	NA	300	ZXISO	NA

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