



#### **Description**

The 828 Series fuses are specifically designed and tested to the circuit protection needs of compact auto-electronics applications. This series is rated 1,000Vdc with remarkable interrupting rating.

#### **Features and Benefits**

- Available in Through-hole and Bolt Down version
- RoHS-compliant, lead-free and halogen-free.
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14 for the US and Canadian Markets
- Small size
- High voltage
- High breaking capacity
- AEC-Q200 Qualified

#### **Additional Information**



Resources





Accessories

Samples

#### **Applications**

- On-Board Charger
- Power Distribution Unit

#### **Agency Approvals**

Agency	Agency File Number	Ampere Range
c <b>FL</b> °us	E10480	15 A - 30 A

#### **Electrical Characteristics**

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	15 A - 30 A	4hrs, Min.
135%	15 A - 30 A	3600 seconds, Max.

#### **Electrical Specifications**

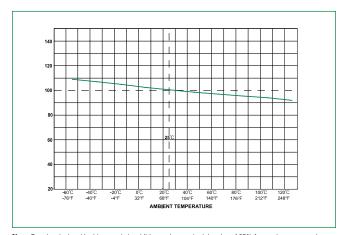
Ampere Rating	Rating Amp	Max Voltage Rating	Interrupting Rating	Nominal Cold Resistance	Nominal Melting	Agency Approvals
(A) Code	(V)	(AC/DC)	(mOhm)	I <sup>2</sup> t (A <sup>2</sup> sec)	c <b>SU</b> °us	
15	015.	1000Vdc	Vdc 10KA@1000Vdc	7.65	190	Х
20	020.			4.90	536	X
25	025.			3.20	1190	X
30	030.			2.90	1500	X

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



### 828 Series High Voltage Cartridge Fuses

#### **Temperature Re-rating Curve**

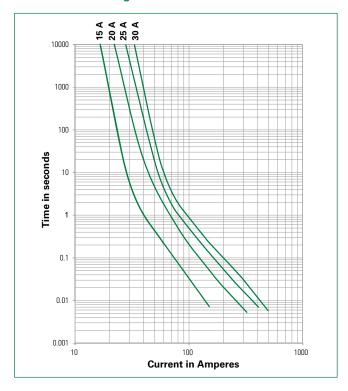


Note: Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

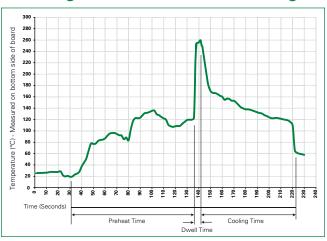
#### **Product Characteristics**

Materials	Body: Glass fiber Cap: Tin plated Copper alloy
Mechanical Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)
Solderability	Reference MIL-STD-202 method 208
Product Marking	Brand logo, current and voltage ratings
Resistance to Solder Heat	MIL-Std 202 Method 210 Test Condition B (10sec at 260 °C)
Operating Temperature	-55 °C to +125 °C
Vibration	MIL-STD-202G, Method 201A
Salt Spray	MIL-STD-202G, Method 101E, Test condition B

#### **Average Time Current Curves**



#### **Soldering Parameters-Wave Soldering**



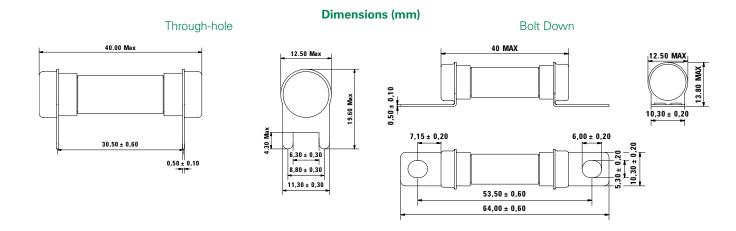
Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flex Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum	100 °C
Temperature Maximum	150 °C
Preheat Time	60-180 seconds
Solder Pot Temperature	260 °C Maximum
Solder Dwell Time	2–5 seconds

#### **Recommended Hand-Solder Parameters:**

Solder Iron Temperature: 350 °C +/- 5 °C Heating Time: 5 seconds max. **Note:** These devices are not recommended for IR or Convection Reflow process.



## **828 Series**High Voltage Cartridge Fuses



# Series Series OB28 XXXX U X TH P P: Lead-Free Amp Code Column of Electrical Characteristics Table U=500 Z=300 Packaging Code X= Filler

#### **Packaging**

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

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