

526 Series

Lead-free > 10x32mm Fuse



Description

The 526 series fuses are specifically designed and tested to the circuit protection needs of compact auto-electronics applications, which is 500 Vdc/Vac rated with remarkable interrupting rating.

Features & Benefits

- RoHS compliant and Lead-free
- High Interrupt Rating
- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Small size
- High current
- High voltage
- Available in through-hole or bolt down
- AEC-Q200 qualified

Additional Information



Resources



Accessories



Samples

Applications

- On-Board Charger (OBC)
- Power Distribution Unit (PDU)

Electrical Characteristics

% of Ampere Rating	Ampere Rating	Opening Time at 25°C
100%	30 A to 60 A	4 hours, Min.
135%	30 A to 40 A	60 minutes, Max.
200%	30 A to 60 A	120 seconds, Max.

Agency Approvals

Agency	Agency File Number	Ampere Range
UL US	E10480	30 A - 60 A

Electrical Specifications

Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating (AC/DC)	Nominal Cold Resistance (Ohm) ¹	Nominal Melting I ² t (A ² sec) ²	Agency Approvals
30	030.	500VDC 500VAC	10KA@500VDC 10KA@500VAC	0.0028	1070	UL US x
40	040.			0.0018	2340	x
50	050.			0.0014	3850	x
60	060.	500VDC 300VAC	10KA@500VDC 10KA@300VAC	0.0011	6290	x

Notes:

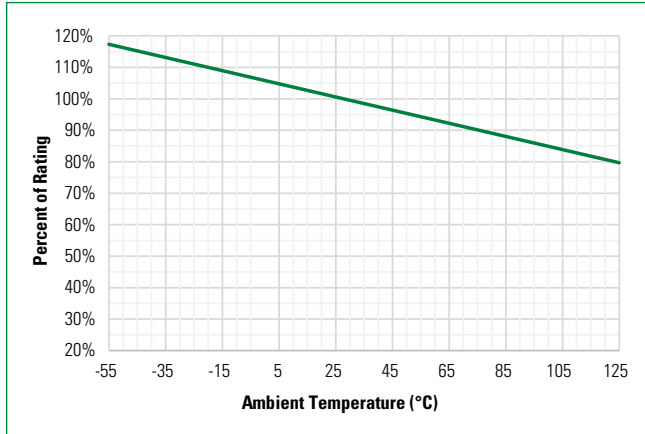
1. Resistance is measured at 10% of rated current, 25 °C.

2. Nominal Melting I²t is measured at 10 the Ampere Rating (I_a)

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Temperature Re-rating Curve

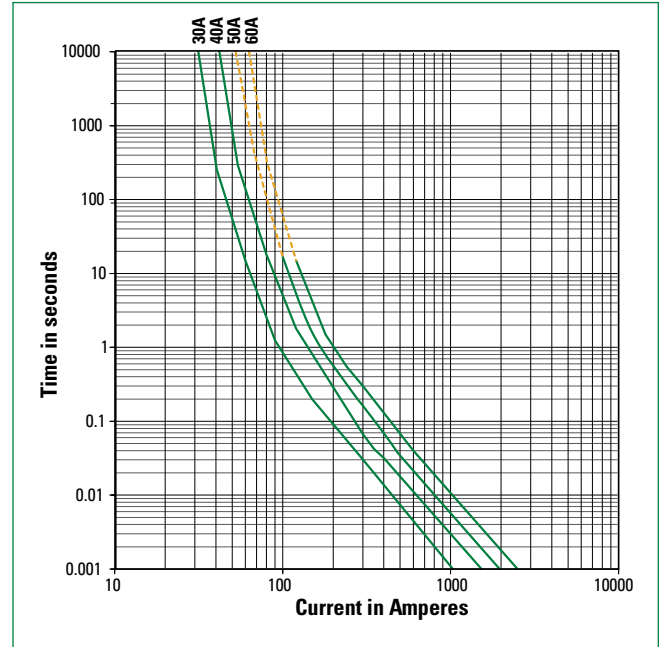


Note:
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Product Characteristics

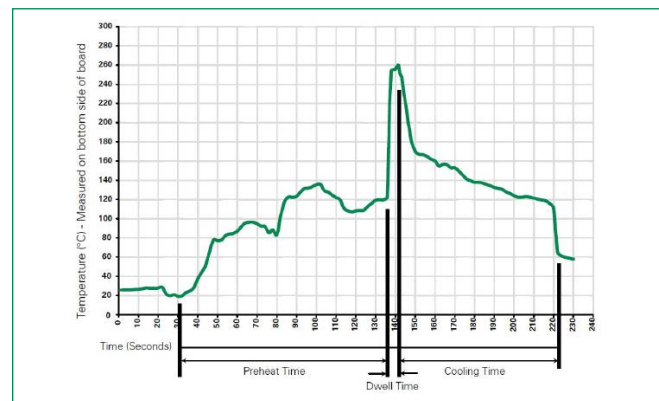
Materials	Body: Glass fiber Cap: Ni plated copper alloy Terminal: Ni/Sn plated copper alloy
Mechanical Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)
Solderability	Reference MIL-STD-202 method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval marks
Resistance to Solder Heat	MIL-Std 202 Method 210 Test Condition B (10 sec at 260 °C)
Operating Temperature	-55 °C to +125 °C
Thermal Shock	MIL-STD-202G, Method 107G, Test condition B
Vibration	MIL-STD-202G, Method 201A
Moisture Resistance	MIL-STD-202G, Method 103B, Test condition A
Salt Spray	MIL-STD-202G, Method 101E, Test condition B

Average Time Current Curves



Note:
The 50 A and 60 A ratings, it may not break current consistently when overload current is less than 200%I_n (represented by dotted portion of this time-current curve), as maybe arc current continuously pass-through fuse under this condition. It is not recommended to use in conditions requiring overloads below 200%I_n

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

Heating Time: 5 seconds max.

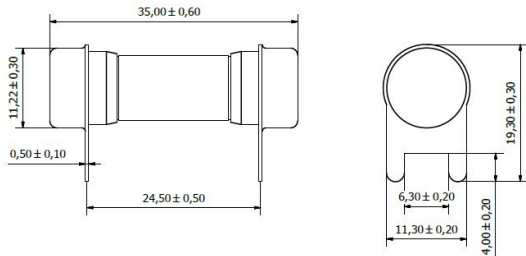
Note: These devices are not recommended for IR or Convection Reflow process.

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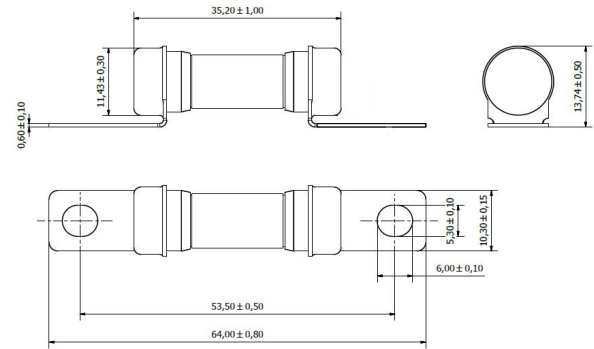
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Dimensions (mm)

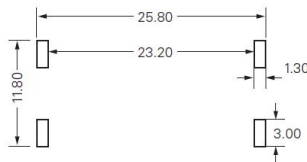
- Through-hole terminal



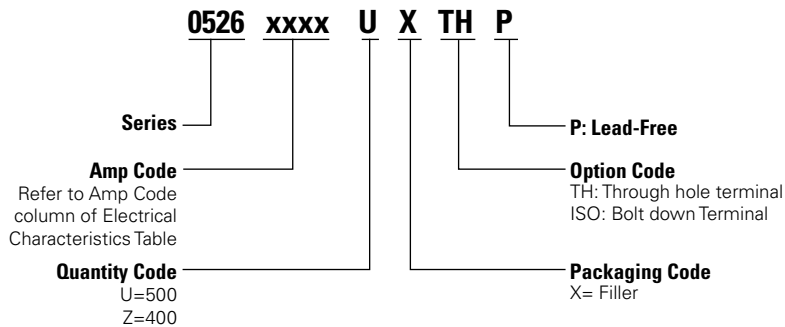
- Bolt down terminal



Recommended PCB layout



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
526 Through hole terminal				
Tray	NA	500	NA	NA
526 Bolt down terminal				
Tray	NA	400	NA	NA

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