

# 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)

### Agency Approvals

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

### 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.

### Electrical Specifications

Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating (AC/DC)	Nominal Cold Resistance (Ohm) <sup>1</sup>	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec) <sup>2</sup>	Agency Approvals
30	030.	500VDC 500VAC	10KA@500VDC 10KA@500VAC	0.0028	1070	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:

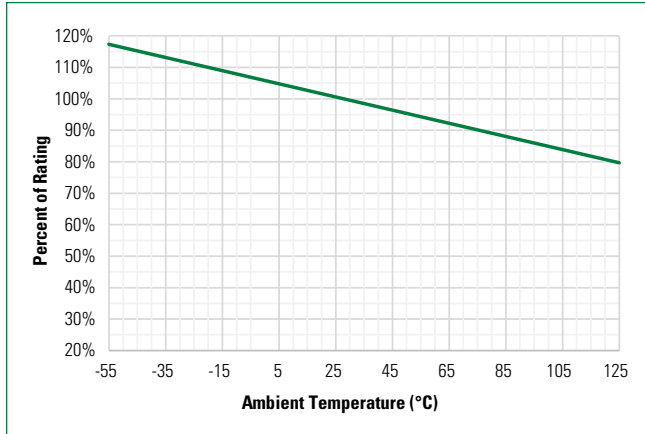
1. Resistance is measured at 10% of rated current, 25 °C.

2. Nominal Melting I<sup>2</sup>t is measured at 10 the Ampere Rating (I<sub>a</sub>)

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## Temperature Re-rating Curve

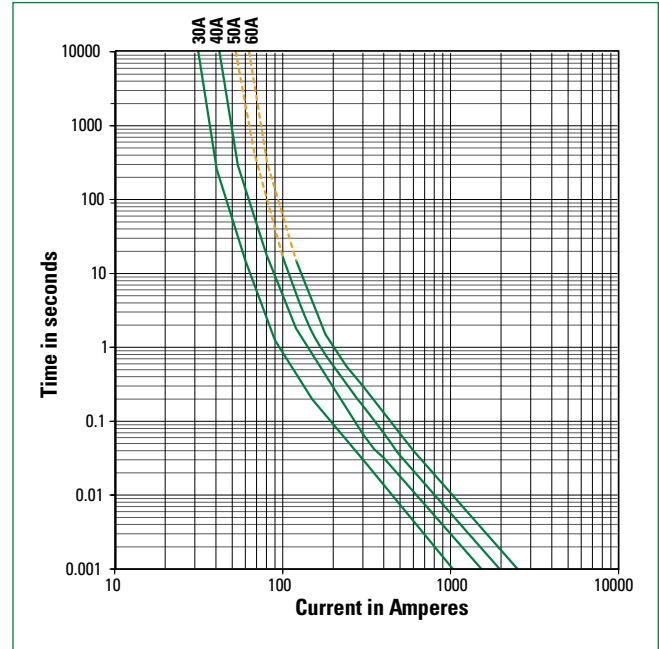


**Note:**  
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

## Product Characteristics

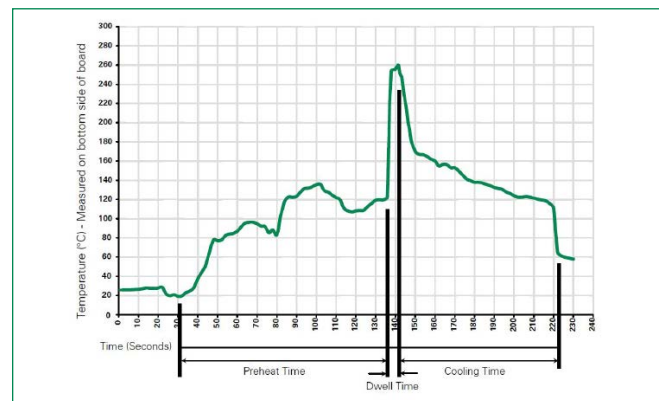
<b>Materials</b>	Body: Glass fiber Cap: Ni plated copper alloy Terminal: Ni/Sn plated copper alloy
<b>Mechanical Shock</b>	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)
<b>Solderability</b>	Reference MIL-STD-202 method 208
<b>Product Marking</b>	Cap 1: Brand logo, current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

## 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
<b>Solder Pot Temperature</b>	260 °C Maximum
<b>Solder Dwell Time</b>	2–5 seconds

### Recommended Hand-Solder Parameters:

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

Heating Time: 5 seconds max.

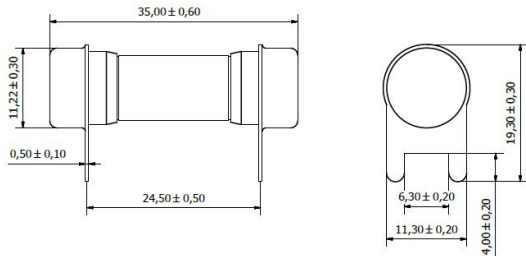
**Note:** These devices are not recommended for IR or Convection Reflow process.

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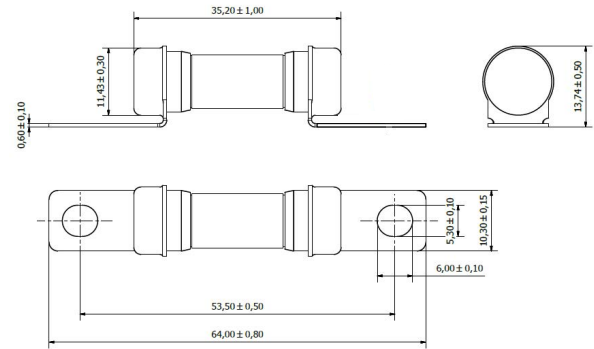
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## Dimensions (mm)

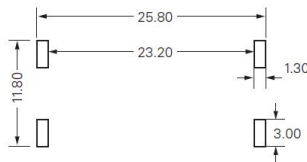
### - Through-hole terminal



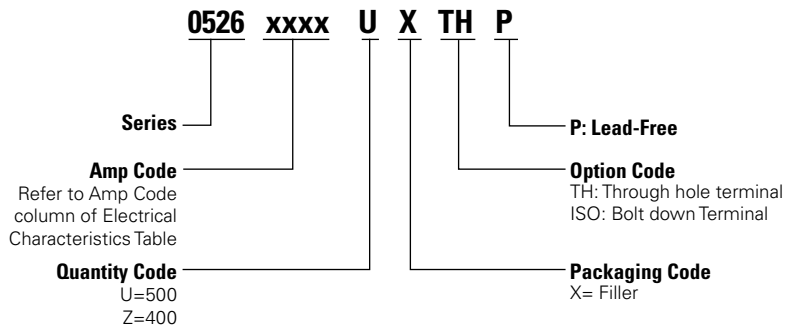
### - Bolt down terminal



### Recommended PCB layout



## Part Numbering System



## Packaging

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

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