🖊 Littelfuse

Axial lead & Cartridge Fuse 3AB>525 Series

525 series, Lead-free 3AB Fuse





Agency File Number

E10480

Agency

Description

The 525 series is AECQ-Compliant, 450VDC rated ceramic fuse with remarkable interrupting rating, which is well suited for circuit protection in high energy applications

Features

- Available in cartridge and axial lead form
- RoHS compliant and Lead-free
- Compact form factor of 6.3x32mm
- High Interrupting Rating
- Meet Littelfuse's automotive qualifications*

*- Largely	based	on l	Littelfuse	internal	AEC-Q200	test plan
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- On board charger
- UPS

Ampere Range

15A-30A

Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4hours, Min
200%	30mins, Max
300%	10sec , Max

Electrical Characteristic Specifications

Amp Code	Amp Rating(A)	Max. Voltage Rating(V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals
015.	15	450VDC	10KA@450VDC	0.0085	55	х
020.	20			0.0049	210	Х
025.	25			0.0038	320	Х
030.	30			0.0031	580	Х



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Temperature Rerating Curve



Note:

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

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 PotTemperature:	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.

Average Time Current Curve

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Product Characteristics

	Materials	Body: Ceramic Cap: Nickel-plated brass Leads: Tin-plated copper
Terminal Strength Solderability		Mil-STD-202G, Method 211A, Test condition A
		Reference MIL-STD-202 method 208
	Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval marks

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	Operating Temperature	-55℃ to +125℃
	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

Dimensions

15A: Φ1.0mm lead wire 20A-30A: Φ1.2mm lead wire

Part Numbering System



Packaging							
Packaging Option Packaging Specification		Quantity	Quantity & Packaging Code	Reel Size			
525 Series							
Bulk	N/A	1000	MX	N/A			
Bulk	N/A	1000	MXE	N/A			