Axial Lead & Cartridge Fuses 3AB>507 Series Fuse

507 Series Lead-Free High Voltage DC Fuse











Description

A 650VDC rated ceramic-body fuse in a compact 6.3 x 32mm package. Well suited for overcurrent protection in high-voltage DC circuits requiring compact form factors.

Features

- · Rated voltage of 650VDC
- Available in cartridge and axial lead version
- RoHS compliant and Lead-free

 Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14

Agency Approvals

Agency	Agency File Number	Ampere Range		
c FL °us	E10480	1A-8A		
€	N/A	1A-8A		

Applications

- High voltage DC power application
- Power inverters
- Variable Frequency Drives (VFDs)
- Motor drives

- DC-DC Converter
- High voltage power supplies
- Power conversion equipment

Additional Information







Resources



Samples

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time	
100%	1A-8A	4 Hours, Minimum	
200%	IA-0A	120 Seconds, Maximum	

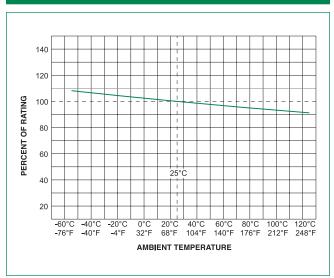
Electrical Characteristic Specifications by Item

	Ampere Rating (A)	Max. Voltage Interrupti Rating Rating	Intownsing	Nominal Cold Resistance (Ohms) *		Agency Approvals		
Amp Code			Rating			c TL °us	Œ	
001.	1			0.37	0.6	Х	X	
1.25	1.25			0.23	1.5	X	X	
01.6	1.6	650VDC		0.165	2.9	X	X	
002.	2		150A@650VDC	0.115	2.3	X	X	
02.5	2.5			0.083	4.1	X	X	
3.15	3.15		000000	150A@650VDC	0.056	9.3	X	X
004.	4			0.055	8	Х	X	
005.	5			0.042	12.5	X	X	
06.3	6.3				0.0285	29	X	X
008.	8			0.0207	53	Х	X	

^{*} Unless otherwise stated, all specifications are referenced at room ambient temperature.

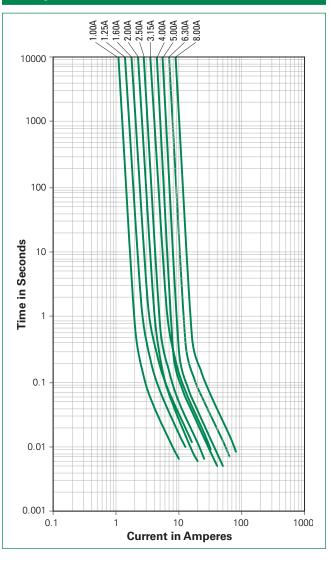


Temperature Re-rating Curve



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

Average Time Current Curves



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 Pot Temperature:	260°C Maximum	
Solder Dwell Time:	2 to 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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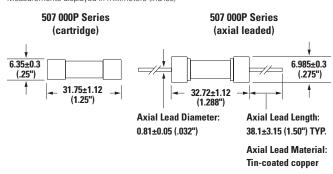
Product Characteristics

Materials	Body : Ceramic Cap : Nickel-plated brass Leads : Tin-plated Copper	
Terminal Strength	MIL-STD-202, Method 211, Test Condition A	
Solderability	MIL-STD-202 Method 208	
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks	

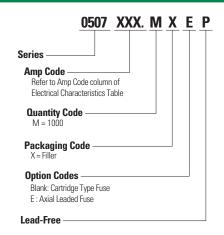
Operating Temperature:	−55°C to 125°C
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High relative humidity (95%) and elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101, Test Condition B

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option Packaging Specificatio		Quantity	Quantity & Packaging Code	Reel Size			
	507 Series						
Bulk	Bulk N/A		MX	N/A			
Bulk	N/A	1000	MXE	N/A			