Axial Lead & Cartridge Fuses 3AB > High I²t > 328 Series

328 Series, Lead-Free 3AB, High Surge Withstand Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range
A	T 50260582 01*	21A
c FU °us	E10480	21A

^{* -} Approved to UL 248-1 and UL 248-14

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 hours, minimum
200%	120 sec., maximum

Additional Information









For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

Description

The 328 Series is a 300VAC rated, 10kA surge withstand, 6.3×32mm ceramic fuse, designed in accordance to UL 248-1 and UL 248-14 Standards, provided in cartridge and axial-lead packages.

Features

- High surge withstand capability
 - 20 hits of 10kA 8/20μs surge
 - Meets ANSI/IEEE C62.41.2, Category C-High
 - Meets US Dept of Energy (DOE) MSSLC/ CBEA street lighting and parking lot lighting, elevated level
- Small form factor (6.3×32mm) with cartridge and axial-lead package options
- Breaking capacity: 200A@300VAC, 200A@100VDC
- Lead-free, RoHS compliant and halogenfree
- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Operating temperature: -55°C to 125°C

Applications

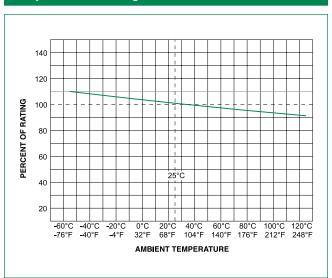
- Commercial and outdoor LED luminaries
- Outdoor electronics and electrical equipment.
- Surge protection for telecom application.

Electrical Characteristic by Item

Amp Rating	Voltage Rating	Interrupting	Surge	Nominal Cold		Agency Approvals	
(A)	(VAC)	Rating	Rating	Resistance (Ohms)		A	<i>717</i>
21 ,	300	200A@300VAC 200A@100VDC	1.2/50 - 8/20µs, 20kV/10kA 20 hits	0.0042	4,800	X	X

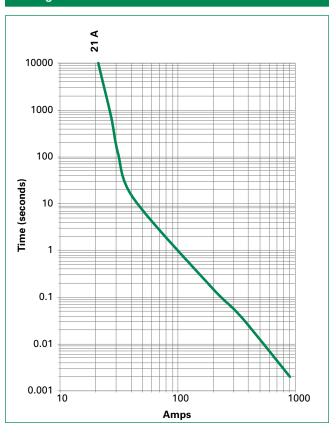
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Temperature Re-rating Curve

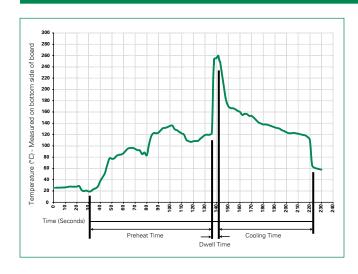


Rerating depicted in this curve is in addition to the standard derating of 25% for

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:	2-5 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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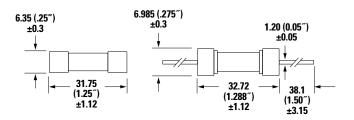
Product Characteristics

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		

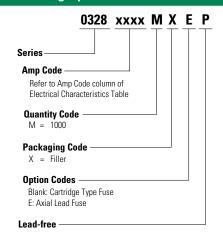
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles –65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MILSTD-202, Method 103, Test Condition A. High RH (95%) and elevated temperature (40°C) for 240 hours.
Salt Spray	MIL-STD-202, Method 101,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

Dimensions

Measurements displayed in millimeters (inches).



Part Numbering System



Packaging					
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width	
328 Series					
Bulk	N/A	1000	MX	N/A	

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Block	<u>354</u>	Low Profile OMNI-BLOK® Fuse Block	600	30
DIOCK	<u>359</u>	High Current Screw Terminal Fuse Block	800	30
Clip	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30

Notes:

1. Do not use in applications above rating.

2. Please refer to fuseholder data sheet for specific re-rating information.

3. Please contact factory for applications greater than the max voltage and amperage shown.