Axial Lead & Cartridge Fuses

3AB > High I²t > 328 Series



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



Agency Approvals					
Agency	Agency File Number	Ampere Range			
\triangle	T 50260582 01	21A			
c FL us	E10480	21A			

Electrical Characteristics for Series

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

Description

The 328 Series is a 300VAC rated, 10kA surge withstand, 6.3×32mm ceramic fuse, designed in accordance to UL248-14 Standard, 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, halogen-free
- Compliant with UL248-14
- 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 (VAC)	Interrupting	upting Surge Nominal Cold ting Rating (Ohms) Nominal Melti	Nominal Melting	Agency Approvals		
(A)	(VAC)	naung		(Ohms)	I ² t (A ² sec)	${\bf A}$	c 🔁 us
21	300	200A@300VAC 200A@100VDC	1.2/50 - 8/20µs, 20kV/10kA 20 hits	0.0042	4,800	Х	x

Additional Information



Datasheet





Samples

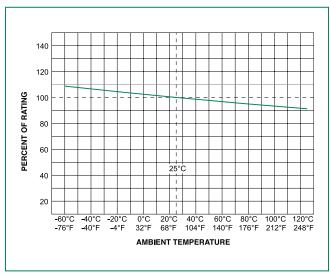


For recommended fuse accessories for this product series, see 'Recommended Accessories' section.



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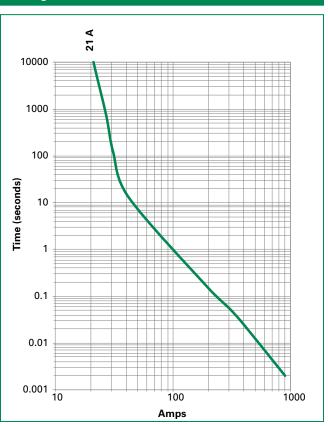
Temperature Re-rating Curve



Note:

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

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 DwellTime:	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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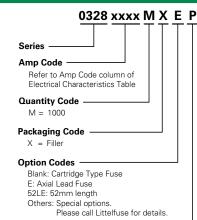


Product Characteristics

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 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 RH (95%) and elevated temperature (40°C) for 240 hours.		
Salt Spray	MIL-STD-202, Method 101, Test Condition B		

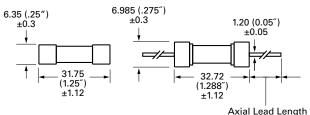
Part Numbering System



Lead-free

Dimensions

Measurements displayed in millimeters (inches).



Axial Lead Length 38.1±3.15(1.50″) TYP 52±1(2.0″) for long lead

Axial Lead Material Tin-coated copper

Packaging

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Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width	
328 Series					
Bulk	N/A	1000	MX	N/A	
Bulk	N/A	1000	MXE	N/A	
Bulk	N/A	1000	MX52LE	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	
	<u>359</u>	High Current Screw Terminal Fuse Block	600	30	
Clip	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30	

Notes:

Do not use in applications above rating.
Please refer to fuseholder data sheet for specific re-rating information.
Please contact factory for applications greater than the max voltage and amperage shown.