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

Description

The – is a 300VAC rated, 10kA surge withstanding, 6.3×32mm ceramic fuse, designed in accordance to UL248-14 Standard, provided in cartridge and axial-lead packages.

Features

- High surge withstanding capability
  - 20 hits of 10kA 8/20µs surge
  - Meets ANSI/IEEE C62.41, 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 and NFPA 70 (NEC) primary fusing requirements
- Operating temperature: –55°C to 125 °

Agency Approvals

Agency	Agency File Number	Ampere Range
	T5026058201	21A
c US	E10480	21A

Electrical Characteristics for Series

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

Applications

Commercial and outdoor LED luminaries

Outdoor electronics and electrical equipment.

Surge protection for telecom application.

Electrical Characteristic by Item

Amp Rating (A)	Voltage Rating (VAC)	Interrupting Rating	Surge Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A²sec)	Agency Approvals	
						TUV	
21	300	200A@300VAC 200A@100VDC	1.2/50 - 8/20µs, 20kV/10kA 20 hits	0.0042	4,800	X	X

Additional Information

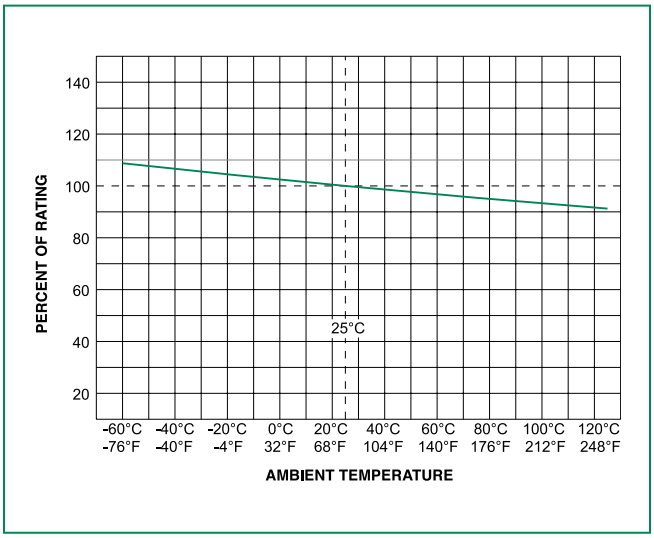
Datasheet | **Resources** | **Samples**

Revised: 03/10/14

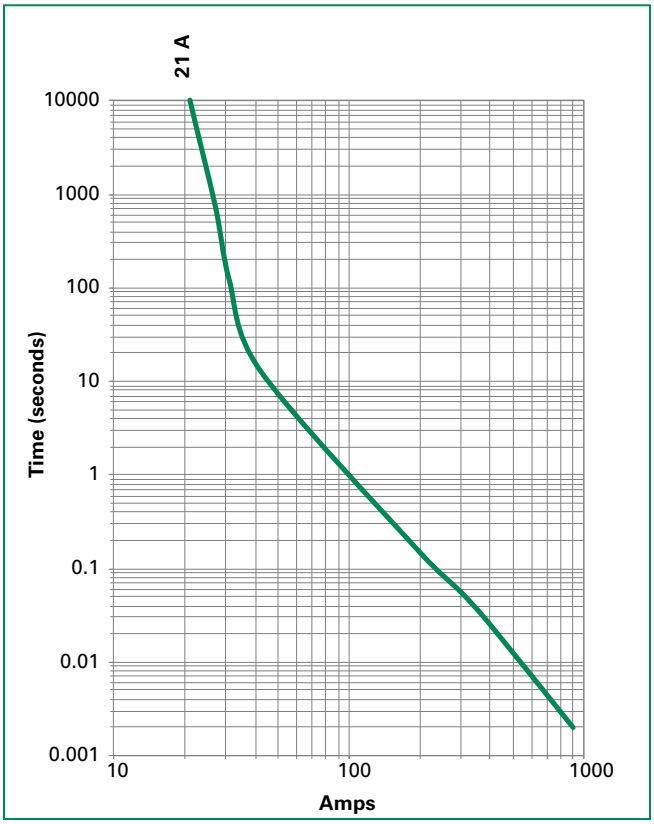
Axial Lead & Cartridge Fuses

3AB > High I²t > 328 Series

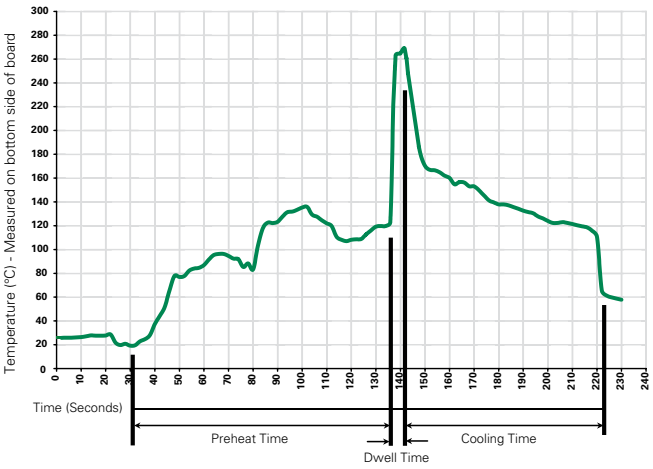
Temperature Rerating Curve



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.

Revised: 03/10/14

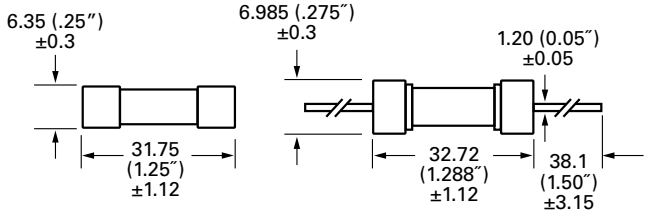
Product Characteristics

Materials	Body: Ceramic Cap: Nickel–plated brass Leads: Tin–plated copper
Terminal Strength	MIL-STD-202G, Method 211A, Test Condition A
Solderability	Reference IEC 60127 Second Edition 2003-01 Annex A
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-202G, Method 107G, Test Condition B: (5 cycles –65°C to +125°C)
Vibration	MIL-STD-202G, Method 201A
Humidity	MIL-STD-202G, Method 103B, Test Condition A. High RH (95%) and elevated temperature (40°C) for 240 hours.
Salt Spray	MIL-STD-202G, Method 101D, Test Condition B

Dimensions

Measurements displayed in millimeters (inches).



Part Numbering System

0328 xxxx M X E P

Series

Amp Code
Refer to Amp Code column of Electrical Characteristics Table

Quantity Code
M = 1000

Packaging Code
X = Filler

Option Codes
Blank: Cartridge Type Fuse
E: Axial Lead Fuse

Lead-free

Packaging

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

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