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322/332 Series Lead-free 3AB, Very Fast-acting Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range	Series
	E10480	12A - 30A	322
	E10480	1A - 10A	332
	NBK080306-JP1021A NBK080306-JP1021B	1-5A 6-10A	332
	N/A	1A - 30A	322/332

Description

The 3AB Very Fast-Acting Fuse for protection of Silicon Controlled Rectifiers and similar solid-state devices.

Features

- In accordance with UL Standard 248-14
- Available in cartridge format only
- RoHS compliant and Lead-free





Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
100%	1 – 30	4 hours, Minimum
250%	1 – 10	.2 second, Maximum
	12 – 30	1 second, Maximum.

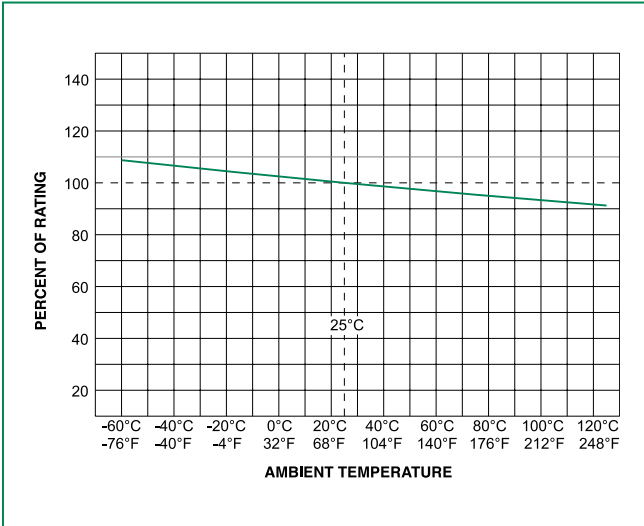
Electrical Characteristic Specifications by Item

Amp Code	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals			
									
001.	1	250	100A@250Vac 100A@125Vdc 200A@72Vdc	0.0927	0.146	x		x	x
1.25	1.25	250		0.0804	0.204	x		x	x
002.	2	250		0.0416	0.790	x		x	x
003.	3	250		0.0245	2.760	x		x	x
004.	4	250		0.0179	3.360	x		x	x
005.	5	250		0.0128	6.250	x		x	x
006.	6	250		0.0117	8.208	x		x	x
007.	7	250		0.0108	10.58	x		x	x
008.	8	250		0.0088	16.45	x		x	x
009.	9	250		0.0077	20.66	x		x	x
010.	10	250	0.0073	24.0	x		x	x	
012.	12	65	200A@65Vac 1000A@65Vdc	0.0057	38.0		x		x
015.	15	65		0.0043	59.0		x		x
020.	20	65		0.0034	192.0		x		x
025.*	25	65		0.0029	325.0		x		x
030.*	30	65		0.0023	540.0		x		x

* Ratings from 1A to 10A are available for 332 series

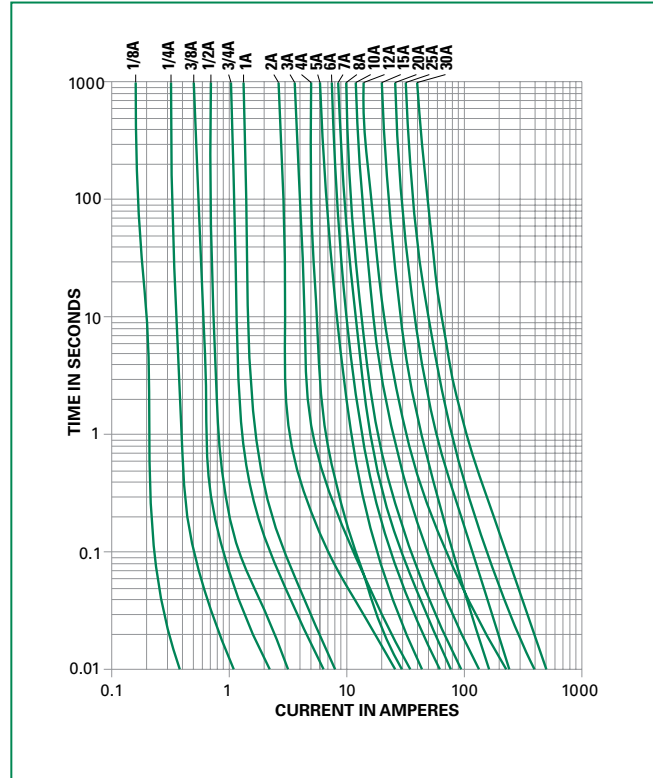
* Ratings from 12A to 30A are available for 322 series, these ratings are RoHS compliant version.

Temperature Re-rating Curve



Note:
Re-rating depicted in this curve is in addition to the industry practice derating of 25% for continuous operation.

Average Time Current Curves



Product Characteristics

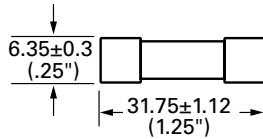
Materials	Body: Ceramic Cap: Nickel-plated brass
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap1: Brand logo, current and voltage ratings Cap2: Series and agency approval marks

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

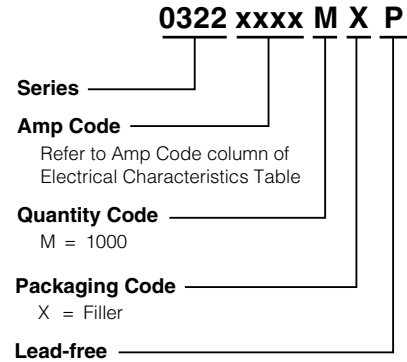
Dimensions

Measurements displayed in millimeters (inches)

322 000P / 332 000P Series (cartridge)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
322 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	100	HX	N/A
332 Series				
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A

Additional Information



Datasheet
322 Series



Resources
322 Series



Samples
322 Series



Datasheet
332 Series



Resources
332 Series



Samples
332 Series



Accessories
322 & 332 Series

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	155100	Twist-Lock In-Line Fuseholder	32	20
	342	Traditional Panel Mount Fuseholder	250	20
	346	Panel Mount Flip-Top Shock-Safe Fuseholder	250	15
	345	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options	250	20
Block	354	Low Profile OMNI-BLOK® Fuse Block	600	30
	359	High Current Screw Terminal Fuse Block		30
Clip	122	High Current Traditional PC Board Fuse Clip	1000	30
	101	Rivet/Eyelet Type Fuse Clip	1000	15

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.