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













#### **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

### **Agency Approvals**

Agency	Agency File Number	Ampere Range	Series	
<b>71</b> °	E10480	12A - 30A	322	
c <b>FL</b> °us	E10480	1A - 10A	332	
PS E	NBK080306-JP1021A NBK080306-JP1021B	1-5A 6-10A	332	
Œ	N/A	1A - 30A	322/332	

#### **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
2500/	1 – 10	.2 second, Maximum
250%	12 – 30	1 sec.ond, Maximum.

#### **Electrical Characteristic Specifications by Item**

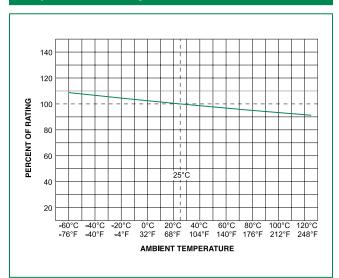
	Ampere Voltag		tage	Nominal Cold	minal Cold Nominal	Agency Approvals			
Amp Code		Rating (V)	ng Rating	Resistance Melting (Ohms) I²t (A² sec)	PS E	<b>9</b> 1	c <b>FN</b> ° us	Œ	
001.	1	250		0.0927	0.146	х		х	X
1.25	1.25	250		0.0804	0.204	x		х	Х
002.	2	250		0.0416	0.790	х		х	Х
003.	3	250		0.0245	2.760	х		х	Х
004.	4	250	100A@250Vac	0.0179	3.360	х		х	х
005.	5	250	100A@125Vdc	0.0128	6.250	х		х	Х
006.	6	250	200A@72Vdc	0.0117	8.208	х		х	Х
007.	7	250		0.0108	10.58	х		х	Х
008.	8	250		0.0088	16.45	х		х	х
009.	9	250		0.0077	20.66	х		х	Х
010.	10	250		0.0073	24.0	х		х	х
012.	12	65		0.0057	38.0		X		X
015.	15	65	200A@65Vac 1000A@65Vdc	0.0043	59.0		х		х
020.	20	65		0.0034	192.0		х		×
025.*	25	65		0.0029	325.0		X		х
030.*	30	65		0.0023	540.0		х		X

<sup>\*</sup> Ratings from 1A to 10A are available for 332 series

<sup>\*</sup> Ratings from 12A to 30A are available for 322 series, these ratings are RoHS compliant version.

# Axial Lead & Cartridge Fuses 3AB > Very Fast-Acting > 322/332 Series

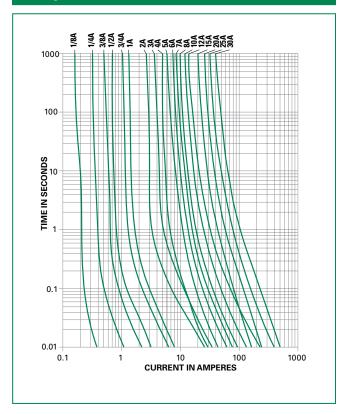
#### **Temperature Re-rating Curve**



Note:

Rerating 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: Cap2:	Brand logo, current and voltage ratings Series and agency approval marks		

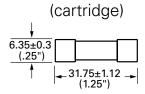
Operating Temperature	−55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL- STD-202, Method 101,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



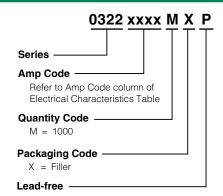
#### **Dimensions**

Measurements displayed in millimeters (inches)

#### 322 000P / 332 000P Series



#### **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	Bulk N/A		HX	N/A	
Bulk	N/A	1000	MX	N/A	

#### **Additional Information**















Samples 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
	<u>155100</u>	Twist-Lock In-Line Fuseholder	32	20
Holdor	<u>342</u>	Traditional Panel Mount Fuseholder	250	20
Holder	<u>346</u>	Panel Mount Flip-Top Shock-Safe Fuseholder		15
	<u>345</u>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options	250	20
Block	<u>354</u>	Low Profile OMNI-BLOK® Fuse Block	600	30
BIOCK	<u>359</u>	High Current Screw Terminal Fuse Block		30
Clin	<u>122</u>	High Current Traditional PC Board Fuse Clip	1000	30
Clip -	<u>101</u>	Rivet/Eyelet Type Fuse Clip	1000	15

#### 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.