

325/326 Series Lead-Free 3AB, Slo-Blo® Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	250mA - 10A
	E10480	12A - 30A
	LR 29862	250mA - 30A
	NBK 030805- E10480A-F/ NBK 260106- JP1021A/B	1A - 30A
	SU05001-5010 SU05001-5011 SU05001-5012 SU05001-7005	2.5A - 3.2A/ 7A - 20A
		10mA - 30A

Description

The 3AB Slo-Blo® Fuse with ceramic body construction permits higher interrupting ratings and voltage ratings. Ideal for applications where high current loads are expected.

Features

- In accordance with UL Standard 248-14
- RoHS compliant and Lead-free
- Available in cartridge and axial lead format and with various forming dimensions

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%	100mA – 30A	4 hours, Minimum
135%	100mA – 30A	1 hour, Maximum
200%	100mA – 3.2A	5 sec., Min., 30 sec., Max.
	4A – 30A	5 sec., Min., 60 sec., Max.

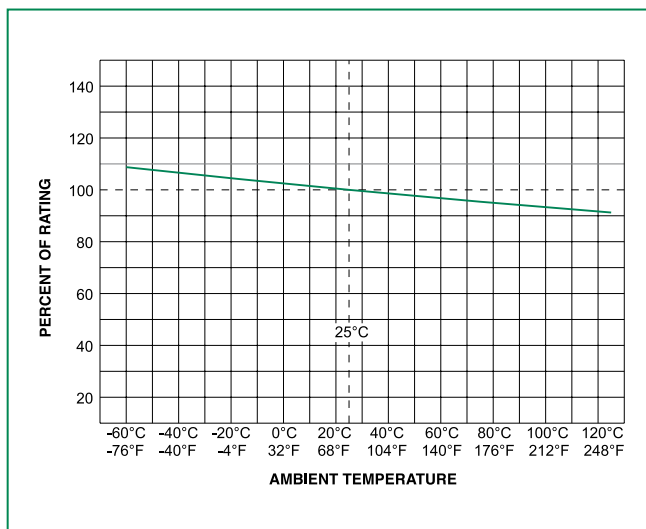
Electrical Characteristic Specifications by Item

Amp Code	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals						
												
.010	0.01	250	100A@250Vac	3324.8000	0.00148					x		
.031	0.031	250		332.5000	0.0110					x		
.062	0.062	250		91.7000	0.0276					x		
.100	0.1	250		33.5500	0.0870					x		
.125	0.125	250		22.4500	0.100					x		
.150	0.15	250		15.4500	0.143					x		
.175	0.175	250		8.9200	0.220					x		
.187	0.187	250		7.7250	0.230					x		
.200	0.2	250		6.7700	0.213					x		
.250	0.25	250		100A@250Vac 10KA@125Vac 10KA@125Vdc	4.4300	0.432			x	x	x	
.300	0.3	250	3.2200		0.690			x	x	x		
.375	0.375	250	2.1550		1.20			x	x	x		
.400	0.4	250	1.9350		1.33			x	x	x		
.500	0.5	250	1.3000		2.50			x	x	x		
.600	0.6	250	0.9495		3.90			x	x	x		
.700	0.7	250	0.7215		6.42			x	x	x		
.750	0.75	250	0.6410		7.00			x	x	x		
.800	0.8	250	0.5725		8.20			x	x	x		
001.	1	250	0.3890		16.3	x		x	x	x		
01.2	1.2	250	0.2860		22.0	x		x	x	x		
1.25	1.25	250	0.2680		24.0	x		x	x	x		
01.5	1.5	250	0.1975		40.1	x		x	x	x		
01.6	1.6	250	0.1760		45.0	x		x	x	x		
002.	2	250	0.1210		80.0	x		x	x	x		
02.5	2.5	250	0.0835		136.0	x		x	x	x	x	
02.8	2.8	250	0.0695		170.0	x		x	x	x	x	
003.	3	250	0.0605		200.0	x		x	x	x	x	
03.2	3.2	250	100A@250Vac 10KA@125Vac		0.0539	214.0	x		x	x	x	x
004.	4	250	400A@250Vac 10KA@125Vac		0.0761	9.71	x		x	x	x	
005.	5	250		0.0522	25.0	x		x	x	x		
6.25	6.25	250		0.0346	60.4	x		x	x	x		
007.	7	250		0.0227	47.3	x		x	x	x	x	
008.	8	250		0.0193	67.1	x		x	x	x	x	
010.	10	250		0.0132	137	x		x	x	x	x	
012.	12	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0067	129	x	x	x		x	x	
012.*	12	250	1500A@250Vac	0.0011	445		x	x		x		
015.	15	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0050	245	x	x	x		x	x	
015.*	15	250	1500A@250Vac	0.0083	760		x	x		x		
020.	20	250	400A@250Vac 10KA@125Vac 600A@125Vdc	0.0034	575	x	x	x		x	x	
020.*	20	250	1500A@250Vac	0.0042	2500		x	x		x		
025.**	25	250	1500A@250Vac	0.0032	4682		x			x		
025.	25	250	400A@250Vac 10KA@60Vdc 600A@125Vdc	0.0024	1030	x	x	x		x		
030.	30	250		0.0019	1690	x	x	x		x		

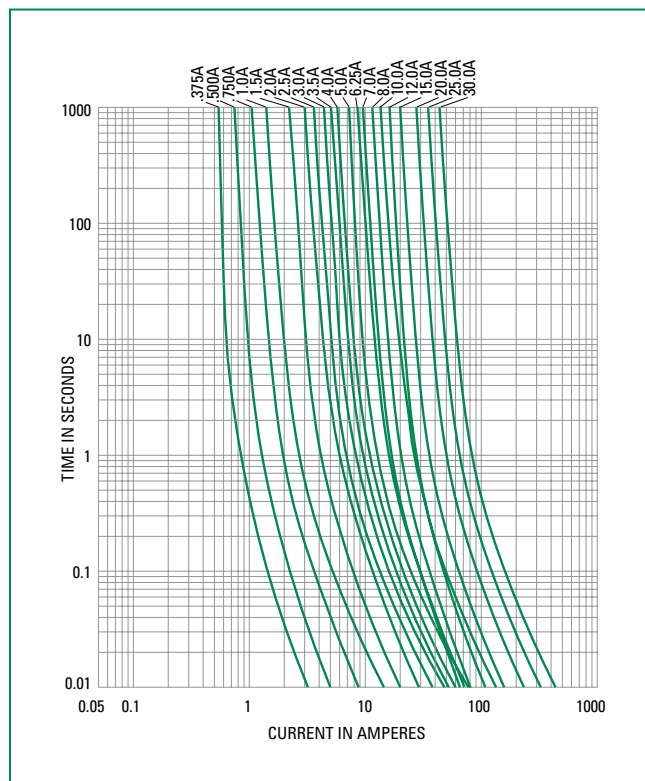
*Higher I²t version available. Please add suffix "D" to part numbers. For instance, 0325020.MXDP, 0326020.MXDP
I²t test at 10x rated current.

**Higher I²t version available. Please add suffix "W" to part numbers. For instance, 0325025.MXWP

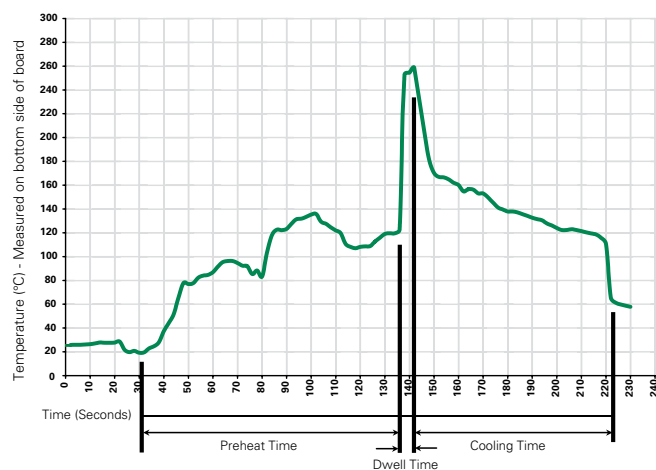
Temperature Derating Curve



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.

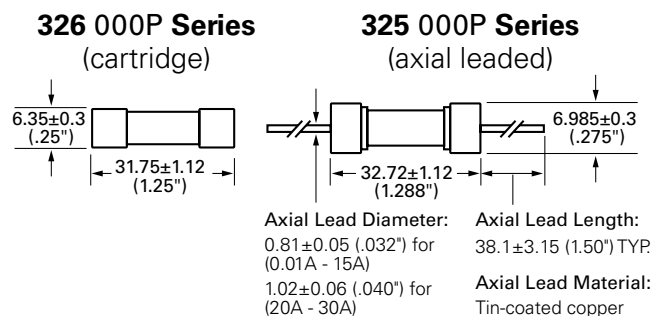
Product Characteristics

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

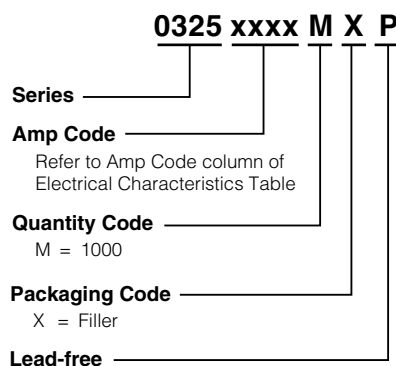
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B: (5 cycles - 65°C to 125°C)
Vibration:	MIL-STD-202G, Method 201A
Humidity	MIL-STD-202G, Method 103B, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202G, Method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

Dimensions

Measurements displayed in millimeters (inches)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
325 Series				
Bulk	N/A	5	VX	N/A
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MX52	N/A
Bulk	N/A	1000	MX52L	N/A
Bulk	N/A	1000	MXD	N/A
Bulk	N/A	1000	MXF31	N/A
Bulk	N/A	1000	MXW	N/A
326 Series				
Bulk	N/A	5	VX	N/A
Bulk	N/A	100	HX	N/A
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXCC	N/A
Bulk	N/A	1000	MXD	N/A