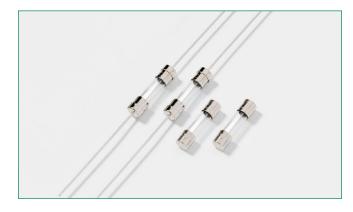
239 Series, 5×20 mm, Slo-Blo® Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
Âg	Cartridge: NBK030609-JP1021A NBK190609-JP1021A NBK030609-JP1021B Leaded: NBK030609-JP1021C NBK190609-JP1021B NBK030609-JP1021D	1A - 3.5A 4A - 5A 7A 1A - 3.5A 4A - 5A 7A
Ĩ.	SU05001 – 2004A SU05001 – 2014A	0.200A – 3.15A 4A – 7A
(l)	E10480	0.080A – 7A
(Sft)	29862	0.200A – 3.15A 4A – 7A
(€	N/A	0.080A – 7A

Description

5×20mm Slo-Blo® glass body cartridge fuse designed to UL specification.

Features

- Designed to UL/CSA/ ANCE 248-1 and 248-14 Standards
- RoHS compliant and lead-free

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• Available in cartridge and axial lead format

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 Ampere Rating Ratings		Opening Time
100%		4 hours, Minimum
135%	All Ratings	1 hour, Maximum
200%		2 minutes, Maximum

Additional Information











Accessories

For recommended fuse accessories for this product series, see '<u>Recommended Accessories</u>' section.



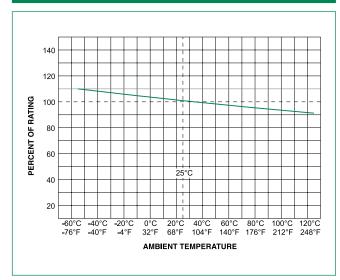
Axial Lead & Cartridge Fuses

5×20 mm > Slo-Blo® Fuse > 239 Series

Electrical Characteristic Specification by Item

Amp Rating		Amp Bating Voltage		Nominal Cold	Nominal Melting	Agency Approvals				
Amp Code	(A)	Rating (V)	Interrupting Rating (Ohms) Nominal Melti I ² t (A ² sec)		UL	()		ß	Œ	
.080	0.08	250		28.1750	0.02500	х				х
.100	0.1	250	35A @ 250 VAC 10kA @ 125 VAC	17.3425	0.05500	х				х
.125	0.125	250		11.6000	0.08500	х				x
.150	0.15	250		8.1000	0.13000	х				х
.200	0.2	250		3.8725	0.16500	х	х		х	x
.250	0.25	250		3.0700	0.34000	х	х		х	х
.300	0.3	250		2.3000	0.61500	х	Х		х	x
.400	0.4	250		1.4750	2.02000	х	х		х	x
.500	0.5	250		0.9090	1.98500	х	х		х	x
.600	0.6	250		0.6990	2.41500	х	x		х	х
.700	0.7	250		0.5375	4.12000	х	x		х	х
.750	0.75	250		0.4710	5.42500	х	х		х	х
.800	0.8	250		0.4155	7.56500	х	х		х	х
001.	1	250		0.2965	11.29500	х	х	x	х	x
1.25	1.25	250		0.1980	19.52500	х	х	x	х	x
01.6	1.6	250		0.1205	30.43000	х	x	x	х	х
002.	2	250	10kA @ 125 VAC	0.0943	50.58500	х	x	x	х	х
02.5	2.5	250		0.0583	79.70500	х	х	x	х	х
003.	3	250	100A @ 250 VAC	0.04877	129.51000	х	х	x	х	х
3.15	3.15	250		0.0414	128.05000	х	х	x	х	х
03.2	3.2	250		0.0385	128.05000	х		x		х
03.5	3.5	250		0.0370	128.05000	х		x		х
004.	4	125		0.0312	270.703	х	х	x	х	x
005.	5	125	10kA @ 125 VAC	0.0199	302.836	х	х	x	х	x
007.	7	125		0.0114	305.758	х	x	x	х	x

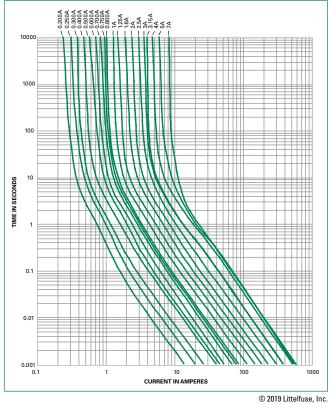
Temperature Re-rating Curve



Note:

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

Average Time Current Curves



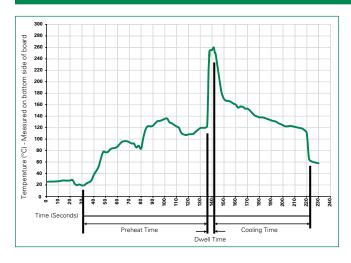
Specifications are subject to change without notice. Revised: 07/31/19



Axial Lead & Cartridge Fuses

5×20 mm > Slo-Blo® Fuse > 239 Series

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

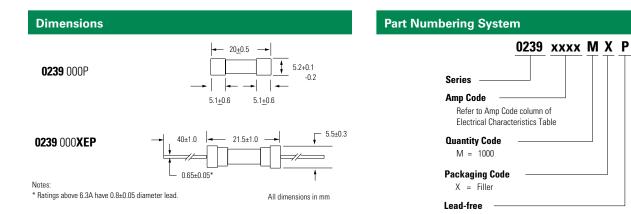
Materials	Body: Glass Cap: Nickel–plated brass Leads: Tin–plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap 1: Brand logo, current and voltage rating Cap 2: Series and agency approval markings

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



Axial Lead & Cartridge Fuses

5×20 mm > Slo-Blo[®] Fuse > 239 Series



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width		
239 Series						
Bulk	N/A	1000	MX	N/A		
Bulk	N/A	1000	MXE	N/A		
Reel and Tape	EIA 296-E	1000	MRET1	T1=52mm (2.062")		
Bulk	N/A	1000	MXB	N/A		
Bulk	N/A	100	HX	N/A		
Bulk	N/A	100	HXE	N/A		

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
	<u>345_ISF</u>	Panel Mount Shock-Safe Fuseholder		10
Holder	<u>345</u>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options		20
	<u>830</u>	PC Mount Shock-Safe Miniature Fuseholder		16
	<u>520</u>	Metric OMNI-BLOK® Fuse Block		10
Block	<u>646</u>	PC Mount Miniature Fuse Block	250	6.3
	<u>658</u>	Surface Mount Miniature Fuse Block		10
	<u>520_W</u>	PC Mount Miniature Fuse Clip		6.3
Clip	<u>111</u>	PC Board Mount Fuse Clip		10
	<u>445</u>	PC Board Mount Fuse Clip		10

Notes: 1. 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.

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