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Axial Lead & Cartridge Fuses

5×20 mm > Time-Lag > 835 Series



835 Series, 5×20 mm, Time-Lag Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range
A	R50282025	5A-8A
	SU05001-14001 SU05001-14002	5A-6.3A 8A
cec	CQC14012115993	8A
(1)	2014010207723515	5A-6.3A
c SN ° us	E10480	5A-8A
PS E	Cartridge: NBK080205-E10480A NBK250702-E10480E Leaded: NBK080205-E10480B NBK250702-E10480F	5A 6.3A-8A 5A 6.3A-8A

Transient Surge Ratings

Surge Wave Short-Circuit Form Current		Number of Pulses	Ampere Rating		
8/20µs ²	1,500A	12	5A-8A		

- 1. Transient surge ratings are provided for reference only and may not represent surge withstand capability in the end application. Factors including, but not limited to, series impedance, mounting, and wiring may affect surge withstand capability.
- 2. In accordance with IEC 60060-1, front time = $8\mu s$ and time to half-value = $20\mu s$

Description

The 835 Series is a 5x20mm time-lag, ceramic body AC fuse with higher I2t, high interrupting rating, and 1.5kA surge withstand capability. This series fuse provides enhanced over-current protection and surge withstand capability, ideal for LED/LCDTVs, digital display systems, and digital signage type of display applications. It is RoHS compliant and 100% Pb-Free.

Features

- Higher I²t and 1.5kA Surge Withstand Capability
- High breaking capacity
- Operating temperature range from -55°C to 125°C
- Meet the IEC 60127-2, sheet 5 specifications for Time-Lag Fuses
- RoHS compliant and Lead-free

Applications

- LED/LCD TVs
- White Goods
- Digital Display Systems
- Power Supply Units
- Digital Signage

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time		
1500/	5A- 6.3A	60 minutes, Minimum		
150%	8A	30 minutes, Minimum		
210%		30 minutes, Maximum		
275%	5A- 8A	.75 sec. Min.; 80 secs. Max.		
400%	0A- 0A	.150 sec. Min.; 5 secs. Max.		
1000%		.010 sec. Min.; .150 sec. Max.		

Additional Information











For recommended fuse accessories for this product series, see 'Recommended Accessories' section.

Electrical Characteristic Specifications by Item

Δ	A		Nominal Cold	Nominal Melting	Agency Approvals						
IF	Amp Rating			Resistance (Ohms)	l²t (A² sec)	A	C	(1)	œc	c 71 2°us	PS E
005.	5			0.0155	155	Х	Х	х		Х	Х
06.3	6.3	250	1500A@250VAC	0.0118	300	Х	X	х		x	×
008.	8			0.0092	230	Х	X		X	X	X

I2t tested at 10x rated current

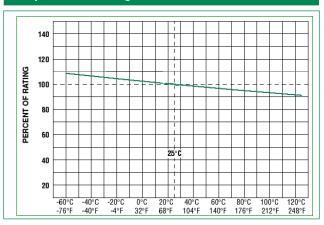




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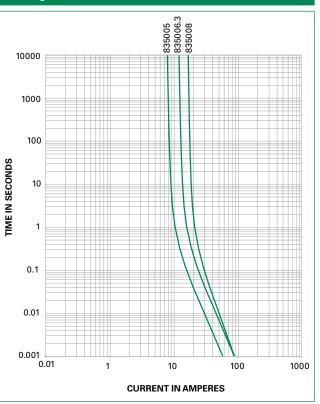
Temperature Rerating Curve



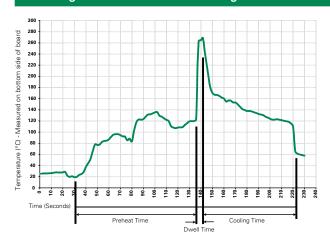
Product Characteristics

Materials	Body: Ceramic Cap: Nickel-plated Brass Leads: Tin-plated Copper		
Terminal Strength	MIL-STD-202, Method 211, Test Condition A		
Solderability	IEC 60068-2-20, Method 1 (235°C)		
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval markings		
Packaging	Packed 1000 pieces on bulk		
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 relative humidity (95%) and elevated temperature (40°C) for 240 hours		
Salt Spray	MIL-STD-202, Method 101, Test Condition B		

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.

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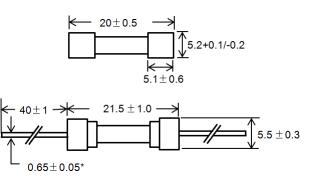


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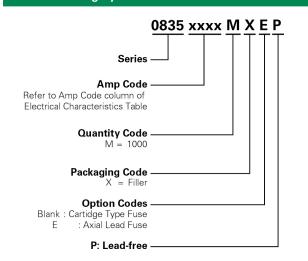


Dimensions



*Ratings above 6.3A have 0.8±0.05mm diameter lead

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size			
835 Series							
Bulk	N/A	1000	MX	N/A			
Bulk	N/A	1000	MXE	N/A			
Bulk (Color Coding & forming)	N/A	1000	MXK	N/A			

All dimensions in mm

Recommended Accessories

Accessory Type	Series	Description		Max Application Amperage
	345_ISF	Panel Mount Shock-Safe Fuseholder		10
Holder	Holder 345 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
520_W Clip 111		PC Mount Miniature Fuse Clip		6.3
		PC Board Mount Fuse Clip		10
	<u>445</u>	PC Board Mount Fuse Clip		10

- 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.