Axial Lead & Cartridge Fuses 5×20 mm > Time-Lag > 835 Series

835 Series, 5×20 mm, Time-Lag Fuse





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/LCD TVs, digital display systems, and digital signage type of display applications. It is RoHS compliant and 100% Pb-Free.

Agency Approvals

Agency	Agency File Number	Ampere Range
A	R50282025	4A-8A
	SU05001-14001A SU05001-14002	4A-6.3A 8A
(W)	2020970207000047	4A-8A
c FL °us	E10480	4A-8A
PS E	Cartridge: NBK080205-E10480A NBK250702-E10480E Leaded: NBK080205-E10480B NBK250702-E10480F	4A-5A 6.3A-8A 4A-5A 6.3A-8A

Features

- Higher I²t and 1.5kA Surge Withstand Capability
- High breaking capacity
- Operating temperature range from -55°C to 125°C
- · RoHS compliant and Lead-free
- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Conforms to EN/J/K 60127-1, EN/J/K 60127-2 and EN 60127-7
- Conforms to GB 9364.1 and GB 9364.2

Transient Surge Ratings

Surge Wave Short-Circuit Form Current		Number of Pulses	Ampere Rating
8/20µs ²	1,500A	12	4A-8A

Notes:

- 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 = 8µs and time to half-value = 20µs

Applications

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

Additional Information









Samples



Accessories

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

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
	4A-6.3A	60 minutes, Minimum
150%	8A	30 minutes, Minimum
210%		30 minutes, Maximum
275%	4A-8A	.75 sec. Min.; 80 secs. Max.
400%		.150 sec. Min.; 5 secs. Max.
1000%		.010 sec. Min.; .150 sec. Max.

Electrical Characteristic Specifications by Item

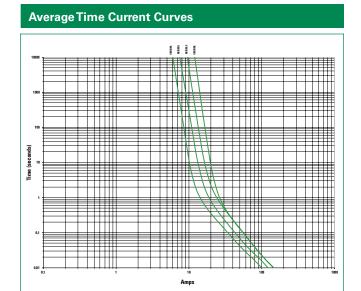
Amp Code	Amp Rating	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals				
						A		(1)	c AV °us	PSE
004.	4	250		0.0183	110	х	Х	х	Х	х
005.	5		15004@050\/40	0.0155	155	Х	Х	Х	Х	Х
06.3	6.3		1500A@250VAC	0.0118	300	Х	Х	Х	Х	Х
008.	8			0.0092	230	X	X	×	×	×

I2t tested at 10x rated current



Temperature Rerating Curve 140 120 PERCENT OF RATING 100 60 25°C 20 -40°F -4°F 32°F 68°F 104°F 140°F 176°F

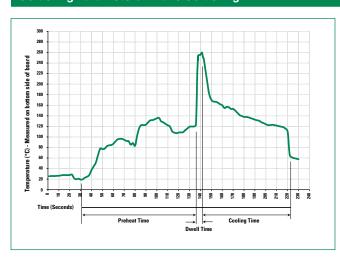
212°F



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	MILSTD-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

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

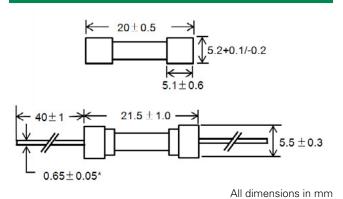
Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

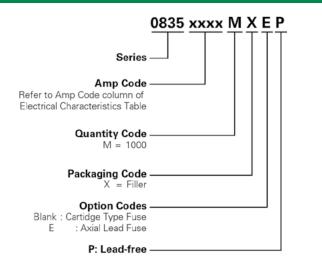
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Dimensions



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

Part Numbering System



Packaging

Packaging Option	Packaging Specification	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			

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
	345_ISF	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
Block	<u>520</u>	Metric OMNI-BLOK® Fuse Block		10
	<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
	<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.
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.

单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)