







### 835 Series, 5x20 mm, Time-Lag Fuse



#### Agency Approvals

Agency	Agency File Number	Ampere Range
	R50282025	5A-8A
	SU05001-14001 SU05001-14002	5A-6.3A 8A
	CQC14012115993	8A
	2014010207723515	5A-6.3A
	E10480	5A-8A
	Cartridge: NBK080205-E10480A NBK250702-E10480E Leaded: NBK080205-E10480B NBK250702-E10480F	5A 6.3A-8A  5A 6.3A-8A

#### Transient Surge Ratings

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

Notes:

- 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.
- In accordance with IEC 60060-1, front time = 8μs and time to half-value = 20μs

#### Description

The 835 Series is a 5x20mm time-lag, ceramic body AC fuse with higher I<sup>2</sup>t, 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.

#### Features

- Higher I<sup>2</sup>t 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
- Digital Display Systems
- Digital Signage
- White Goods
- Power Supply Units

#### Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
150%	5A- 6.3A	60 minutes, Minimum
	8A	30 minutes, Minimum
210%	5A- 8A	30 minutes, Maximum
275%		.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

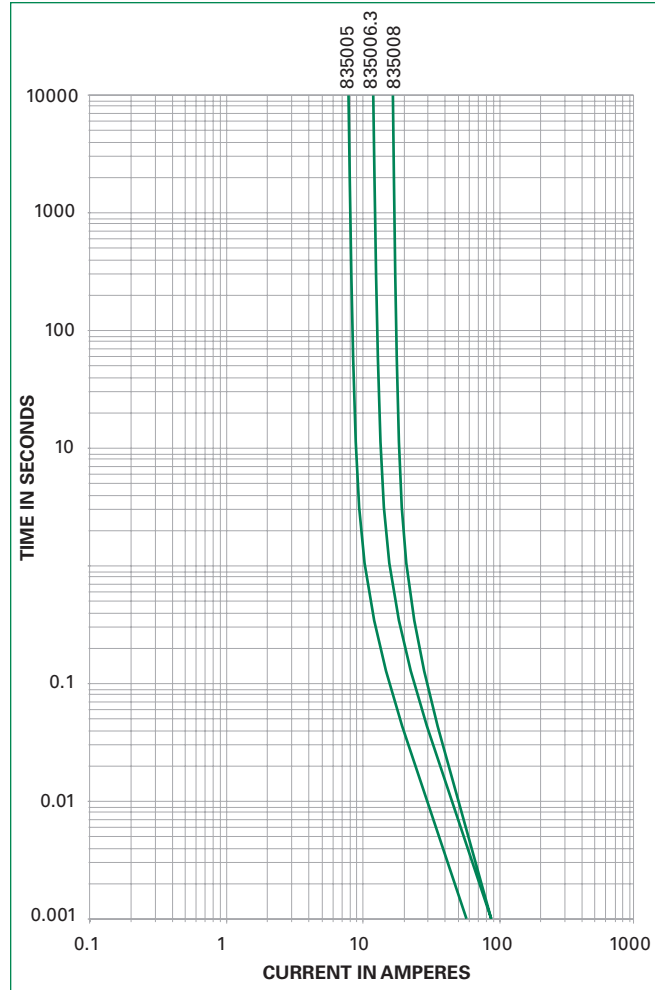
Amp Code	Amp Rating	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Agency Approvals					
											
005.	5	250	1500A@250VAC	0.0155	155	x	x	x		x	x
06.3	6.3			0.0118	300	x	x	x		x	x
008.	8			0.0092	230	x	x		x	x	x

I<sup>2</sup>t tested at 10x rated current

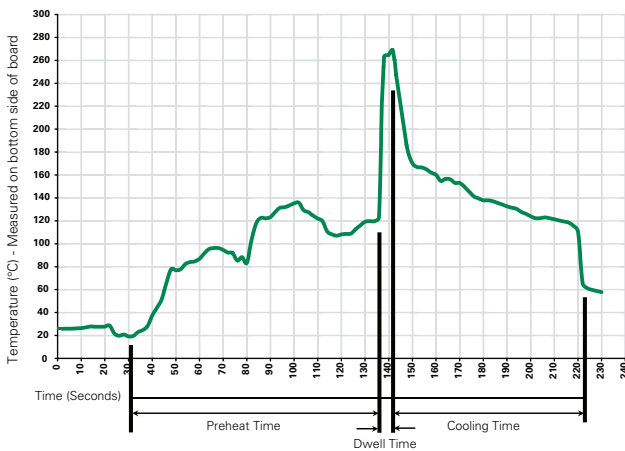
**Temperature Derating Curve**



**Average Time Current Curves**



**Soldering Parameters - Wave Soldering**



**Recommended Process Parameters:**

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260°C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

**Recommended Hand-Solder Parameters:**

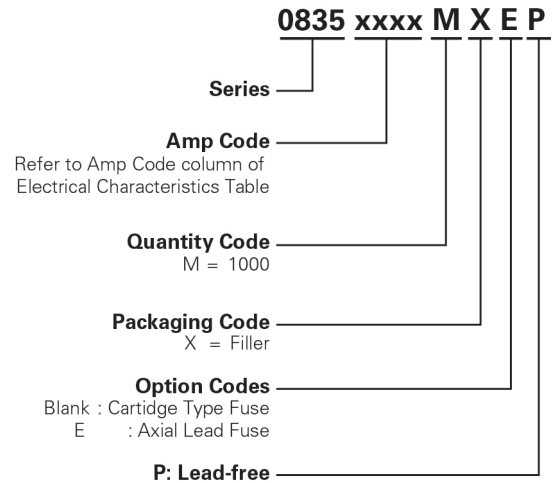
Solder Iron Temperature: 350°C +/- 5°C  
Heating Time: 5 seconds max.

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

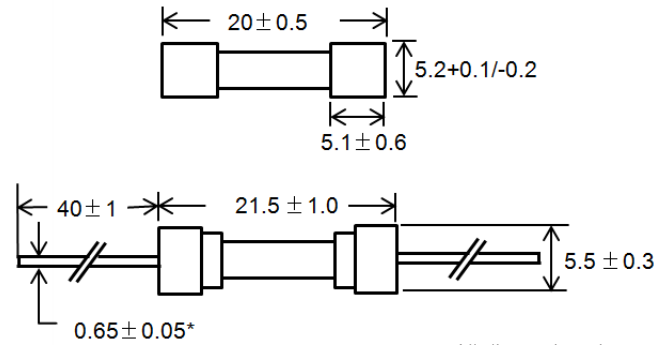
### Product Characteristics

<b>Materials</b>	<b>Body:</b> Ceramic <b>Cap:</b> Nickel-plated Brass <b>Leads:</b> Tin-plated Copper
<b>Terminal Strength</b>	MIL-STD-202, Method 211, Test Condition A
<b>Solderability</b>	IEC 60068-2-20, Method 1 (235°C)
<b>Product Marking</b>	<b>Cap 1:</b> Brand logo, current and voltage ratings <b>Cap 2:</b> Agency approval markings
<b>Packaging</b>	Packed 1000 pieces on bulk
<b>Operating Temperature</b>	-55°C to +125°C
<b>Thermal Shock</b>	MIL-STD-202, Method 107, Test Condition B (5 cycles, -65°C to +125°C)
<b>Vibration</b>	MIL-STD-202, Method 201
<b>Humidity</b>	MIL-STD-202, Method 103, Test Condition A: High relative humidity (95%) and elevated temperature (40°C) for 240 hours
<b>Salt Spray</b>	MIL-STD-202, Method 101, Test Condition B

### Part Numbering System



### Dimensions



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

### Packaging

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

# AMEYA360

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