

Time-Lag Ceramic Tube Fuse

BMT Series

Descriptions

This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Lighting, Power supply and Adapter applications, etc.



Product Characteristics

- ⌌ Lead Pull Strength: 10N for 10±1 Seconds.
- ⌌ Lead Thrust Strength: 2N for 10±1 Seconds.
- ⌌ Solder Ability: Wave: 260°C, ≤3s;
Soldering Iron: 350±10°C, ≤3s.
- ⌌ Soldering Heat Resistance: Wave : 260°C, 10s;
Soldering Iron: 350°C, <2s.

Standards and Agency Approvals

- ⌌ Standards: In accordance with UL 248-1/-14.
- ⌌ Certification: UL/CUL.

Material Details

Part Name	Material
Cap	Nickel Plated Brass
Body	Ceramic Tube
Fuse Element	Alloy
Lead Wire	Tinned Copper Wire

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Electrical Characteristics

Part Number	Rated Current	Rated Voltage	Breaking Capacity	I ² T A ² S
BMT0050E	50mA	125V(50mA~40A) 250V(50mA~40A)	35A@250Vac(50mA~1A) 10KA@125Vac(50mA~3.15A) 100A@250Vac(1.2A~3.15A) 200A@250Vac(3.5A~10A) 750A@125Vac(12A~40A) 600A@250Vac(12A~40A)	0.001
BMT0063E	63mA			0.001
BMT0100E	100mA			0.002
BMT0125E	125mA			0.003
BMT0160E	160mA			0.005
BMT0200E	200mA			0.01
BMT0250E	250mA			0.02
BMT0315E	315mA			0.045
BMT0400E	400mA			0.07
BMT0500E	500mA			0.1
BMT0630E	630mA			0.2
BMT0800E	800mA			0.45
BMT1100E	1A			0.9
BMT1125E	1.25A			1.3
BMT1160E	1.6A			2.5
BMT1200E	2A			5.8
BMT1250E	2.5A			7.6
BMT1315E	3.15A			11
BMT1400E	4A			28
BMT1500E	5A			40
BMT1630E	6.3A			64
BMT1800E	8A			133
BMT2100E	10A			242
BMT2120E	12A			/
BMT2150E	15A	/		
BMT2180E	18A	/		
BMT2200E	20A	/		
BMT2250E	25A	/		
BMT2300E	30A	/		
BMT2350E	35A	/		
BMT2400E	40A	/		

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Electrical Characteristics

- u Test Condition: All electrical test is to be conducted with the ambient air at a temperature of $25\pm 5^{\circ}\text{C}$.
- u Interrupting Rating: Breaking Capacity: 35A@250Vac(50mA~1A), 10KA@125Vac(50mA~3.15A), 100A@250Vac(1.2A~3.15A), 200A@250Vac(3.5A~10A), 750A@125Vac(12A~40A), 600A@250Vac(12A~40A).

- u Rising Temperature Test:

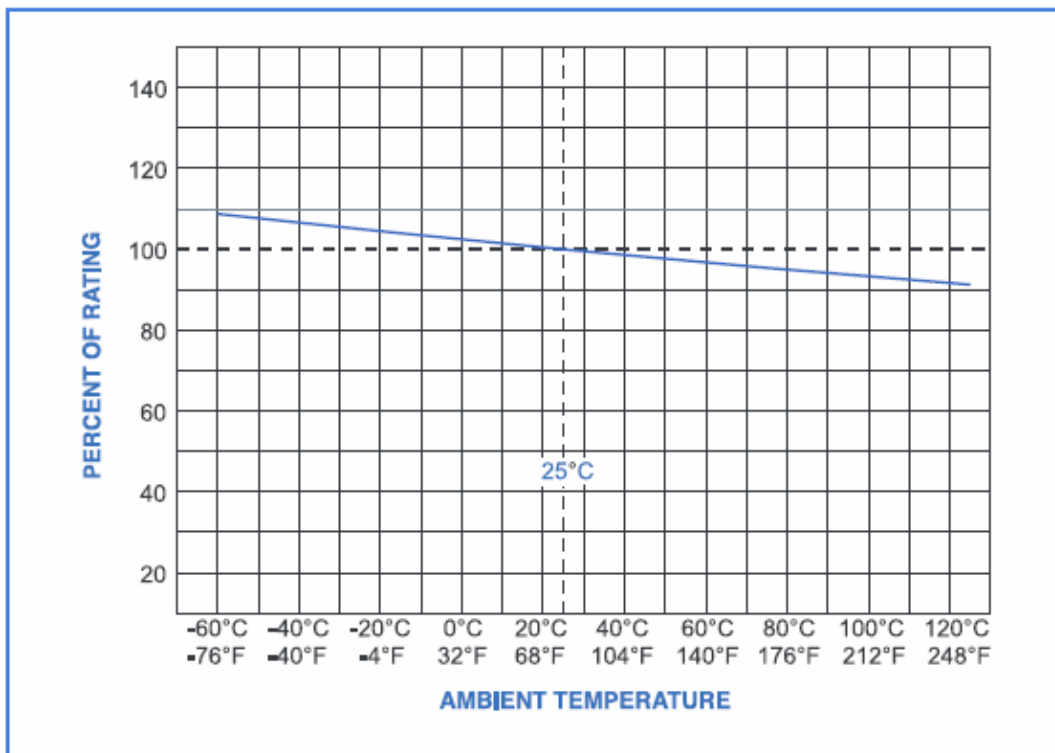
When the 100% times of Ampere Rating passes the fuse, after reaching thermal balance , the temperature on the fuse surface rising shall not be higher than 75°C . Note: Rising temperature= the Surface temperature-Ambient temperature.

- u Opening Time:

% of Ampere Rating	Opening Time
100% * In	T>4hrs
135% * In	T<3600s
200% * In	T<120s

Environmental Characteristics

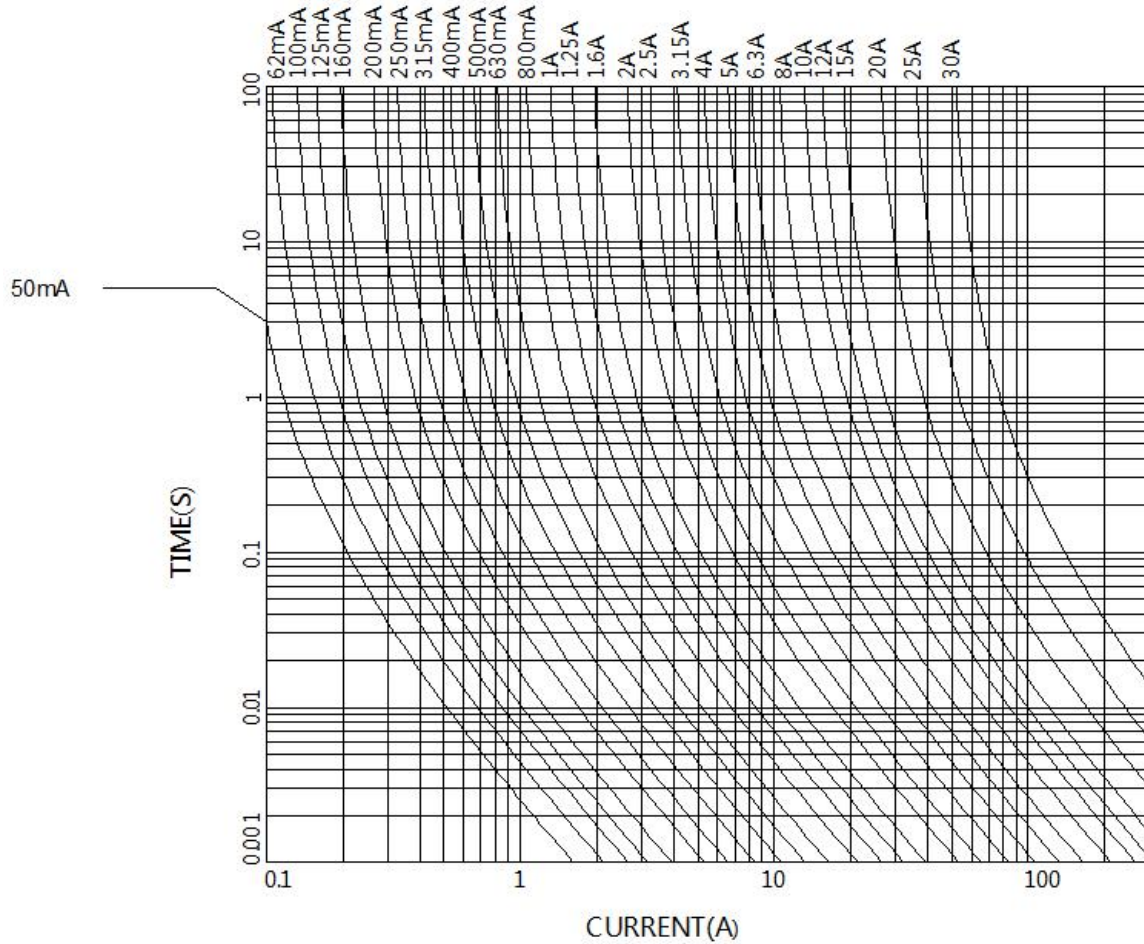
- u Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
- u Stock Condition: Humidity:Relative humidity $\leq 75\%$ store 3 years in average.
- u When choosing the fuse's specification, if the operating environmental temperature beyond the scope from $20\sim 30^{\circ}\text{C}$, engineer should consider the environmental temperature's affection to fuses. Please refer: Temperature Derating Curve:



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Average Time Current Curves



Recommended Soldering Parameters

⌋ Wave Parameters:

Solder Pot Temperature: 260°C ±10°C;

Solder Dwell Time: 2~5s.

⌋ Hand-Solder Parameters:

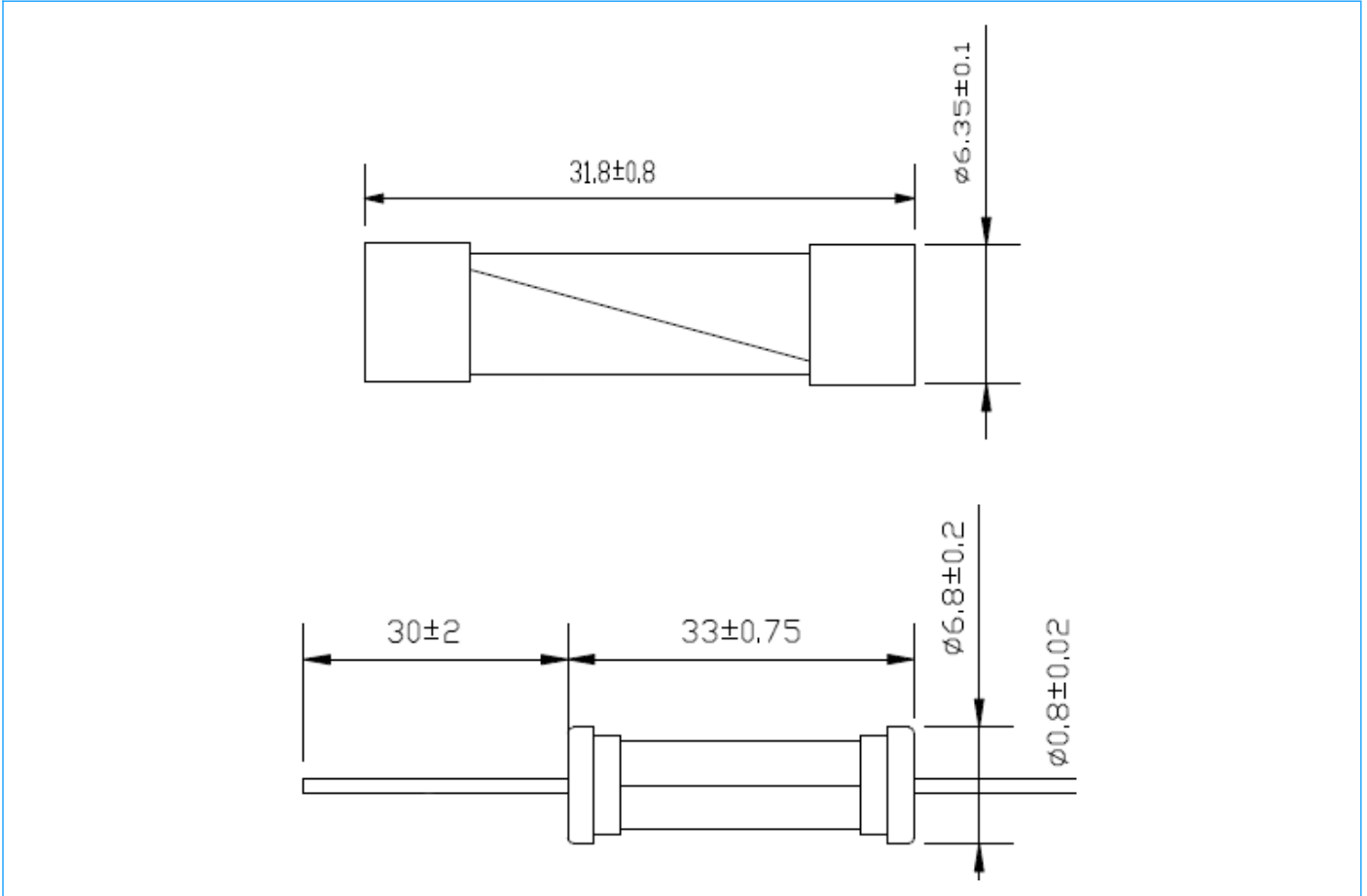
Solder Iron Temperature: 350±5°C;

Heating Time: 3s Max.

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Dimensions and Structure (Unit: mm)



Packing Quantity

Series	Poly Bag	Inner Box	Outer Carton
BMT Series	500 pcs	10 poly bags	4 inner boxes