

# Type SEB

## Fast Acting Glass Tube Fuses Series



### Description

SEB Fast-acting type, 125V/250V/350V in accordance to UL248-1,248-14

### Features

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Low internal resistance
- Vibration resistant
- Internationally approved
- Shock safe casing
- Halogen free

### Applications

- Power supplies
- Consumer Electronics
- Battery Chargers
- Industrial Controllers

### Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	E485357	250mA-10A 350VAC@100A 250mA-10A 350VDC@50A 250mA-10A 250VAC@200A 250mA-10A 125VAC@10KA

### Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hour, Min
135%	1H Max
200%	120Sec.,Max

### Electrical Characteristic Specifications by Item

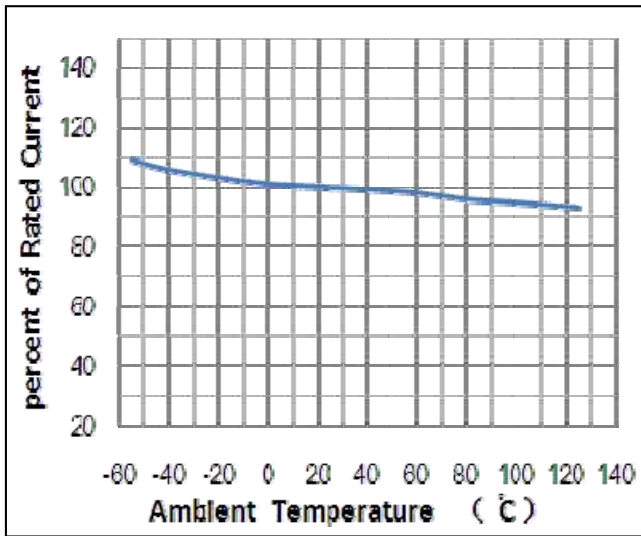
Catalog Number	Rated Current	Voltage Rating	Breaking Capacity				Melting Integral 10In min(A²S)	Agency Approvals
			350Vdc	350Vac	250Vac	125Vac		cULus
SEB0250	250mA	350V ac 350V dc 250V ac 125V ac	50A	100A	200A	10kA	0.043	●
SEB0350	350mA		50A	100A	200A	10kA	0.073	●
SEB0400	400mA		50A	100A	200A	10kA	0.096	●
SEB0500	500mA		50A	100A	200A	10kA	0.150	●
SEB0630	630mA		50A	100A	200A	10kA	0.238	●
SEB0800	800mA		50A	100A	200A	10kA	0.384	●
SEB1100	1.0A		50A	100A	200A	10kA	0.600	●
SEB1125	1.25A		50A	100A	200A	10kA	1.093	●
SEB1150	1.5A		50A	100A	200A	10kA	1.575	●
SEB1200	2.0A		50A	100A	200A	10kA	2.800	●
SEB1250	2.5A		50A	100A	200A	10kA	4.375	●
SEB1315	3.15A		50A	100A	200A	10kA	7.200	●
SEB1400	4.0A		50A	100A	200A	10kA	17.600	●
SEB1500	5.0A		50A	100A	200A	10kA	27.500	●
SEB1630	6.3 A		50A	100A	200A	10kA	32.400	●
SEB1700	7.0A		50A	100A	200A	10kA	49.000	●
SEB1800	8.0A		50A	100A	200A	10kA	70.400	●
SEB2100	10.0A		50A	100A	200A	10kA	110.000	●

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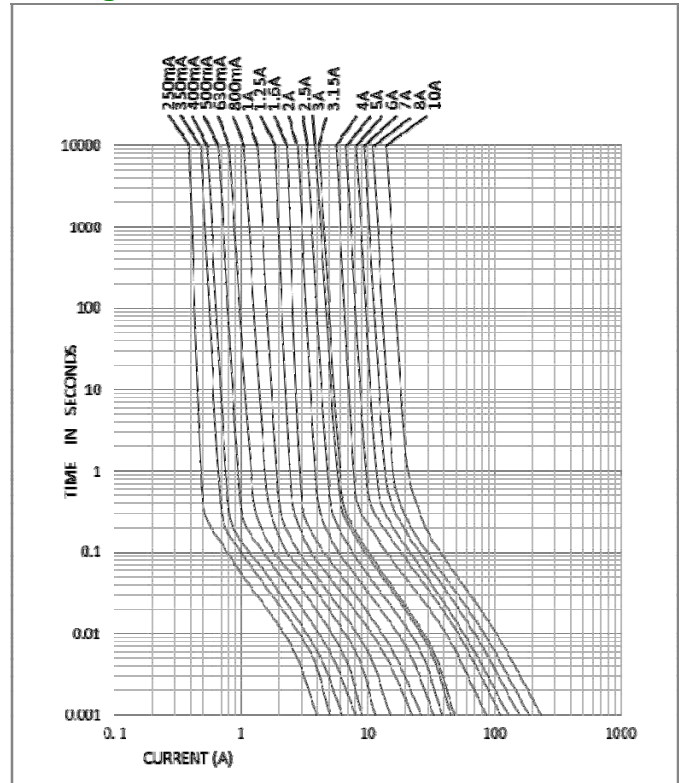
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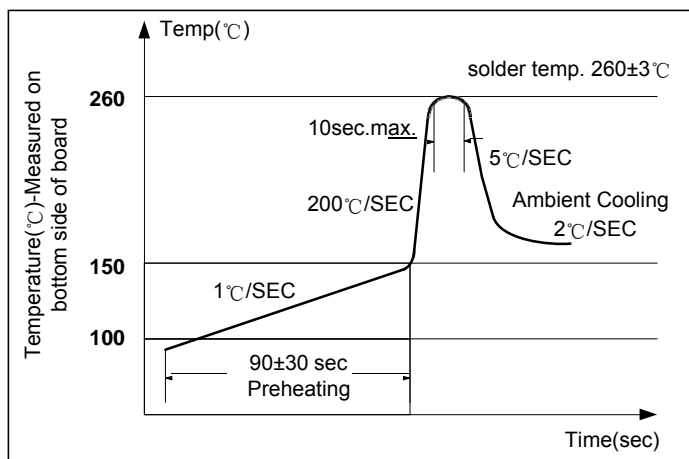
### Temperature Re-rating Curve



### Average Time Current Curves



### Soldering Parameters-Wave Soldering



### Recommended Process Parameters:

Lead-Free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C/second
Heating rate during preheat	Typical 1-2°C/second Max 4°C/second
Final preheat temperature	Within 125°C of soldering temperature
Peak temperature Tp	260°C
Time within +0°C/-5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C/second max

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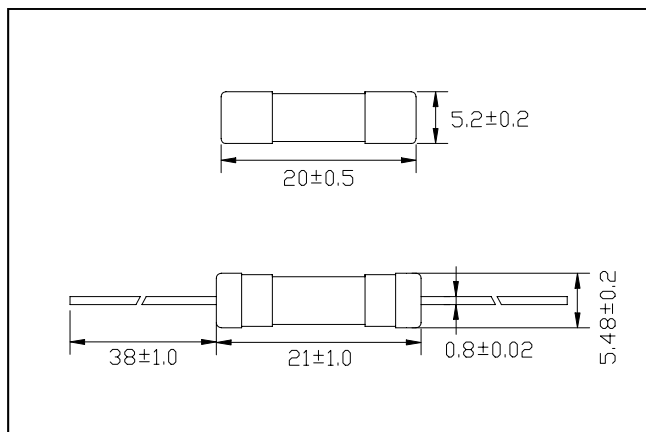


### Product Characteristics

<b>Materials</b>	Glass Body Nickel Plated Brass Caps
<b>Lead Pull Strength</b>	10 N(IEC 60068-2-21)
<b>Solderability</b>	260 °C, ≤3 sec.(wave) 350 °C, ≤3 sec.(soldering iron)
<b>Soldering Heat Resistance</b>	260 °C, 10 sec.(IEC 60068-2-20) 350 °C, ≤3 sec.(soldering iron)

<b>Operating Temperature</b>	-55 °C to +125 °C (consider de-rating)
<b>Climatic Category</b>	-55 °C to +125 °C/21 days (EN 60068-1, -2-1, -2-2, -2-78)
<b>Stock Condition</b>	+10 °C to +60 °C Relative humidity ≤75% yearly Average, without dew, maximum Value for 30 days -95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (EN 60068-2-6) 10-60 Hz at 0.75 mm amplitude 60-2000 Hz at 10 g acceleration

### Mechanical Dimensions(Unit:mm)



### Ordering Information

<b>FUSE TYPE</b>	<b>SEB</b>	<b>1100</b>	<b>2</b>	<b>01</b>
<b>SEB</b>				
<b>AMPERE RATING</b>				
1A(10 <sup>1</sup> x100mA)				
<b>VOLTAGE RATING</b>				
1:125V 2:250V 3:350V				
<b>COMPLEMENT</b>				
00:Standard 01:Axial Lead				

### Packaging

Packaging Option	Packaging Specification	Quantity
Standard(00)	N / A	500
Axial Lead(01)	N / A	100