

Time-Lag Radial Lead Micro Fuse

SCTMSxxxxAB Series

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, ≤ 1s.
- ◆ Soldering Heat Resistance:
Wave : 260°C, 10s; Soldering Iron: 350°C, 3s.



Applications

This product is suitable for various kinds of electronic devices' circuit over current protection. Widely used in industrial of Battery Charges, Consumer Electronics, Power supplies, Industrial Controllers, etc.

Electrical Characteristics

- ◆ Test Condition: All electrical test is to be conducted with the ambient air at a temperature of 25±5°C.
- ◆ Pre-Arcing Time / Current Characteristic (limits)

Rating	Blowing Time
210%	2 min Max.
275%	400ms ~ 10s
1000%	20ms ~ 150ms

- ◆ Interrupting Rating: Breaking Capacity: 35A or 10In whichever is greater. After the test, the insulation resistance value is greater than 0.1MΩ.
- ◆ Rising Temperature Test: Testing with 1.5In for 15 minutes, then increase 0.1In every 15 minutes. When fuse opened, any part of measured temperature rise shall not exceed 135°C, and the ambient temperature of 25 ± 5°C.

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Part Number	Ampere Rating	Voltage Rating (V)	Max Voltage Drop (mV)	I ² T Melting Integral (A ² .S)
SCTMS0050AB	50mA	350	555	0.02
SCTMS0100AB	100mA	350	355	0.11
SCTMS0125AB	125mA	350	323	0.12
SCTMS0160AB	160mA	350	296	0.17
SCTMS0200AB	200mA	350	272	0.21
SCTMS0250AB	250mA	350	251	0.41
SCTMS0315AB	315mA	350	237	0.63
SCTMS0400AB	400mA	350	211	1.22
SCTMS0500AB	500mA	350	202	2.34
SCTMS0630AB	630mA	350	191	2.88
SCTMS0800AB	800mA	350	172	3.92
SCTMS1100AB	1A	350	200	5.77
SCTMS1125AB	1.25A	350	200	8.34
SCTMS1160AB	1.6A	350	190	13.60
SCTMS1200AB	2A	350	170	25.90
SCTMS1250AB	2.5A	350	170	42
SCTMS1300AB	3A	350	165	45
SCTMS1315AB	3.15A	350	150	64
SCTMS1400AB	4A	350	130	92
SCTMS1500AB	5A	350	130	140
SCTMS1630AB	6.3A	350	130	208
SCTMS1800AB	8A	350	100	265
SCTMS2100AB	10A	350	100	295

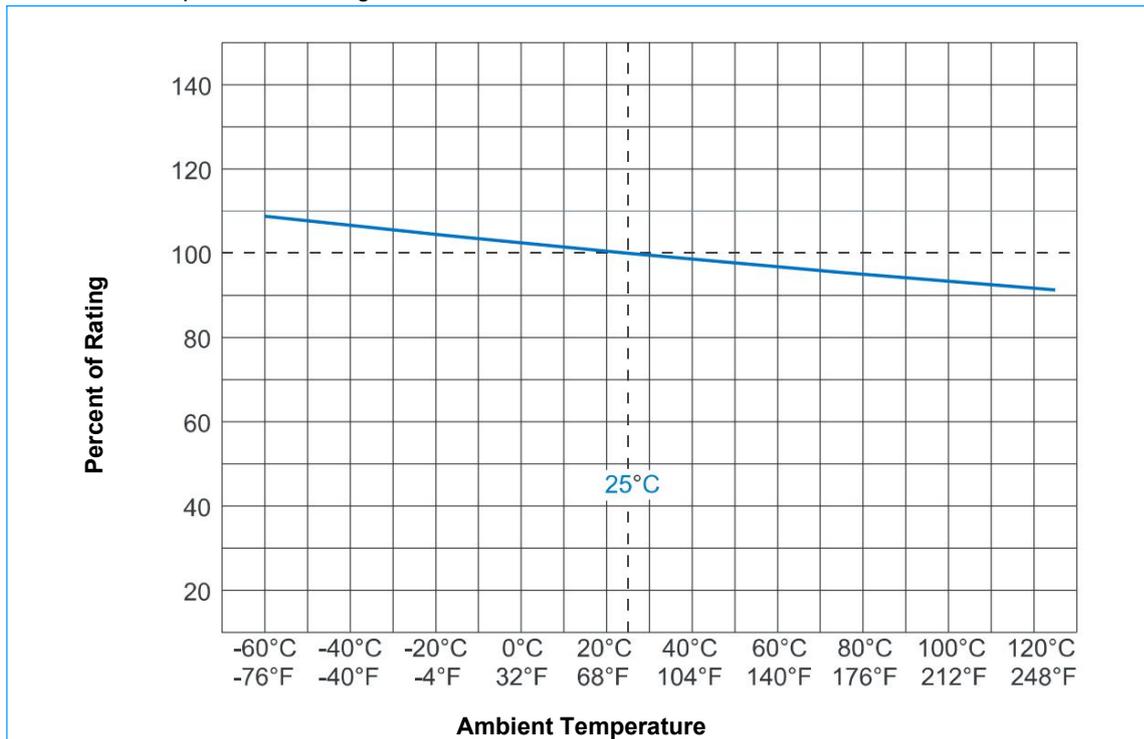
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Environmental Characteristics

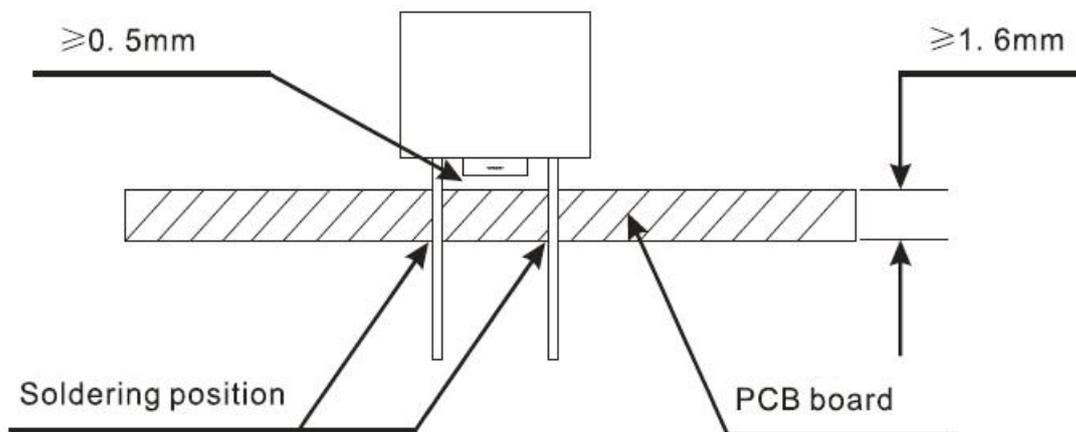
- ◆ Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
- ◆ Stock Condition: Humidity: Relative humidity $\leq 75\%$, store 3 years average.
- ◆ When choosing the fuse's specification, if the operating environmental temperature beyond the scope from $20 \sim 30^{\circ}\text{C}$, engineer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

Please refer: Temperature Derating Curve:



Installation Recommendations

Propose installation way as following picture:



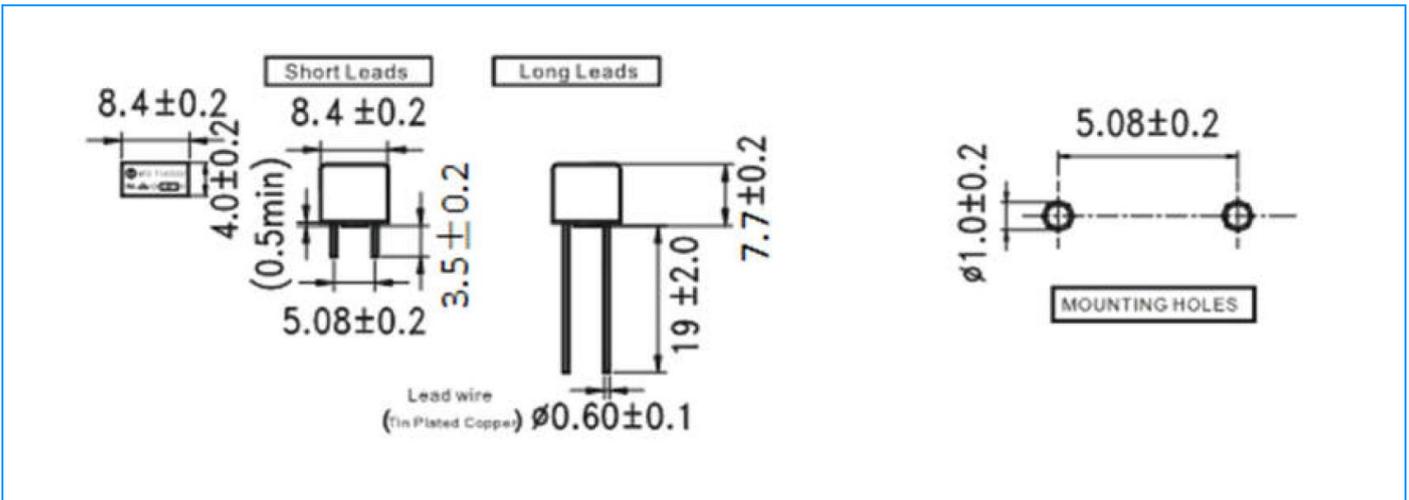
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Recommended Soldering Parameters

- ◆ Wave Parameters: Solder Pot Temperature: 260°C Max; Solder Dwell Time: 2~5s.
- ◆ Hand-Solder Parameters: Solder Iron Temperature: 350±5°C; Heating Time: 1~2 s Max.

Dimensions and Structure (mm)



Packing Quantity

Packing Type	Description
Bulk	1,000 pcs per bag
Tape	1,000 pcs per box