SOCAY

RoHS

Time-Lag Radial Lead Micro Fuse

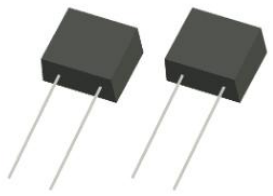
SCMTSxxxxAB 250V Time-Delay Series

Product Characteristics

- Lead Pull Strength: 5N for 10±1 Seconds.
- Lead Thrust Strength: 2N for 10±1 Seconds.
- Solder ability:

  Wave : 260℃,≤ 3s; Soldering Iron: 350±10℃,≤ 1s.
- Soldering Heat Resistance:

  Wave : 260℃,10s; Soldering Iron: 350℃,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℃.
- Breaking Capacity: 35A or 10In whichever is greater at 250V AC.The insulation resistance value of fuse is greater than 0.1MΩ after breaking capacity testing.
- Rising Temperature Test: Under the ambient temperature of 25±5℃, through 1.5 times the rated current for 15 minutes, then every 15 minutes, add an increase of 0.1 times the rated current. When operates, the temperature rise in any part of fuse should not exceed 135℃.
- Operating Characteristics:

% of Ampere Rating(In)	Blowing Time
150%* In	60 min Minimum
210%* In	2 min Max
275%* In	400 ms~10 s
400%* In	150 ms~3 s
1000%* In	20 ms~150 ms

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Electrical Characteristics

Part Number	Ampere Rating	Voltage Rating (V)	Max Voltage Drop (mV)	I^2T Melting Integral($A^2.S$)
SCMTS0050AB	50mA	250	1600	0.015
SCMTS0063AB	63mA	250	1600	0.016
SCMTS0080AB	80mA	250	1500	0.017
SCMTS0100AB	100mA	250	1500	0.02
SCMTS0125AB	125mA	250	760	0.10
SCMTS0160AB	160mA	250	500	0.15
SCMTS0200AB	200mA	250	260	0.21
SCMTS0250AB	250mA	250	240	0.48
SCMTS0315AB	315mA	250	220	0.78
SCMTS0400AB	400mA	250	200	1.22
SCMTS0500AB	500mA	250	190	2.11
SCMTS0630AB	630mA	250	180	2.88
SCMTS0800AB	800mA	250	160	3.92
SCMTS1100AB	1A	250	140	5.77
SCMTS1125AB	1.25A	250	130	8.34
SCMTS1160AB	1.6A	250	120	13.60
SCMTS1200AB	2A	250	100	26
SCMTS1250AB	2.5A	250	100	42
SCMTS1300AB	3A	250	100	45
SCMTS1315AB	3.15A	250	100	90
SCMTS1350AB	3.5A	250	100	100
SCMTS1400AB	4A	250	100	120
SCMTS1500AB	5A	250	100	170
SCMTS1630AB	6.3A	250	100	290
SCMTS1800AB	8A	250	100	320
SCMTS2100AB	10A	250	95	450
SCMTS2120AB	12A	250	95	460
SCMTS2150AB	15A	250	85	480
SCMTS2160AB	16A	250	85	515
SCMTS2200AB	20A	250	85	960

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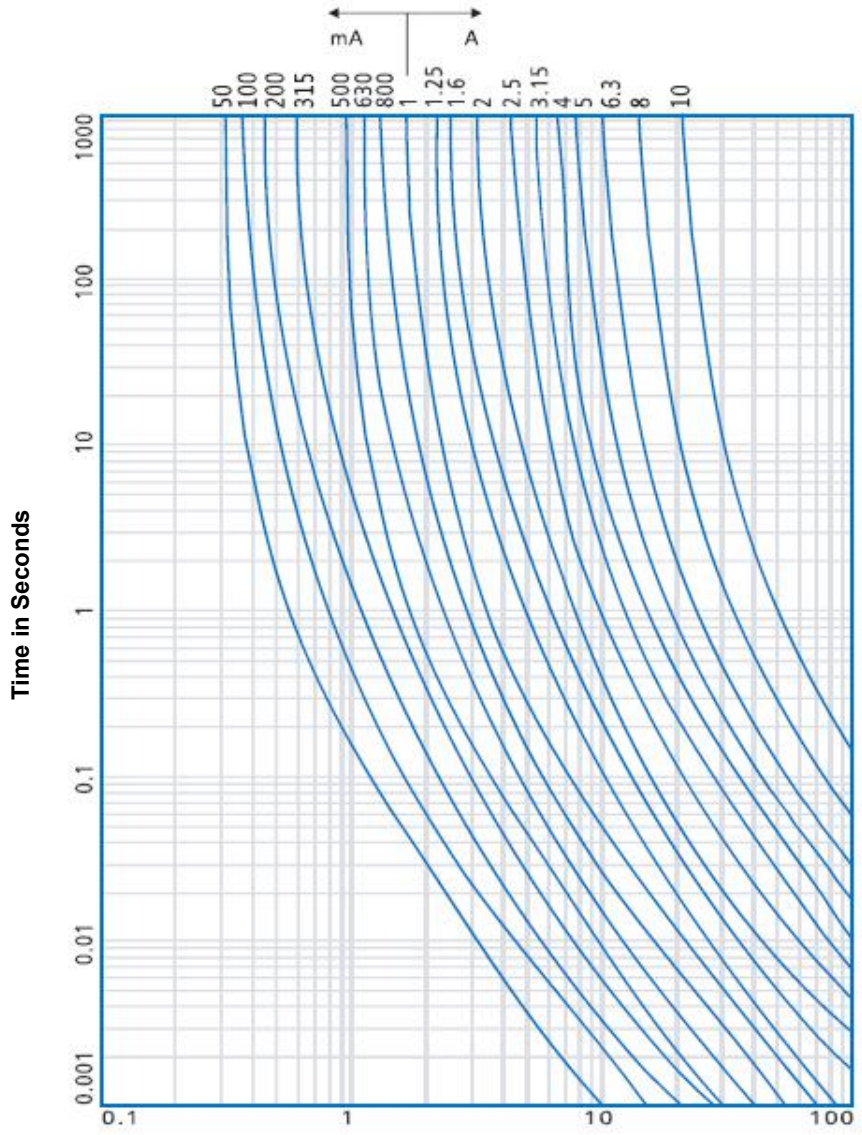
Average Time Current Curves



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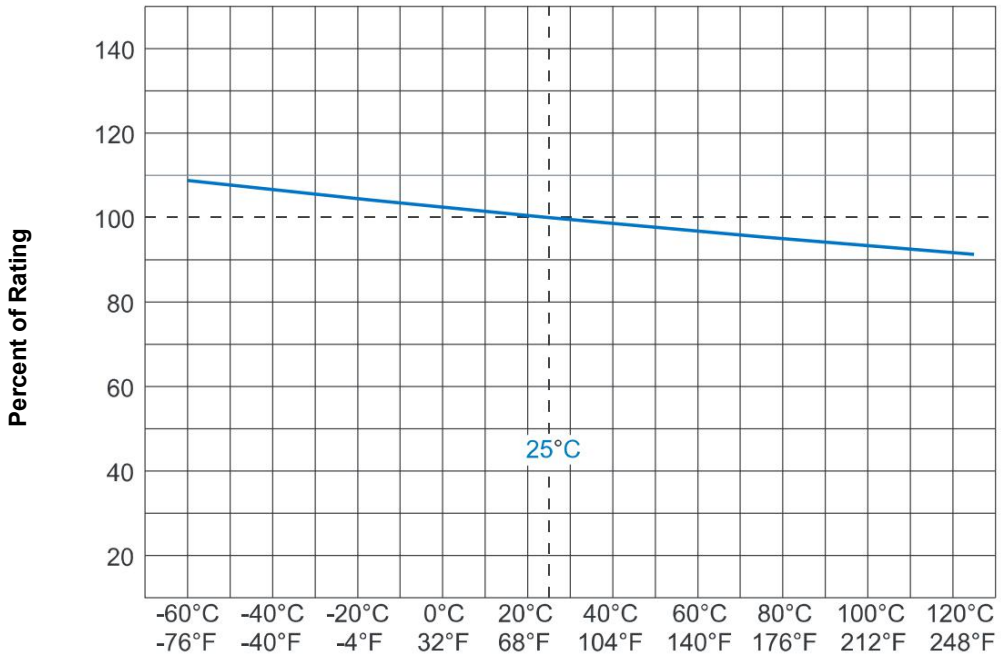
Environmental Characteristics

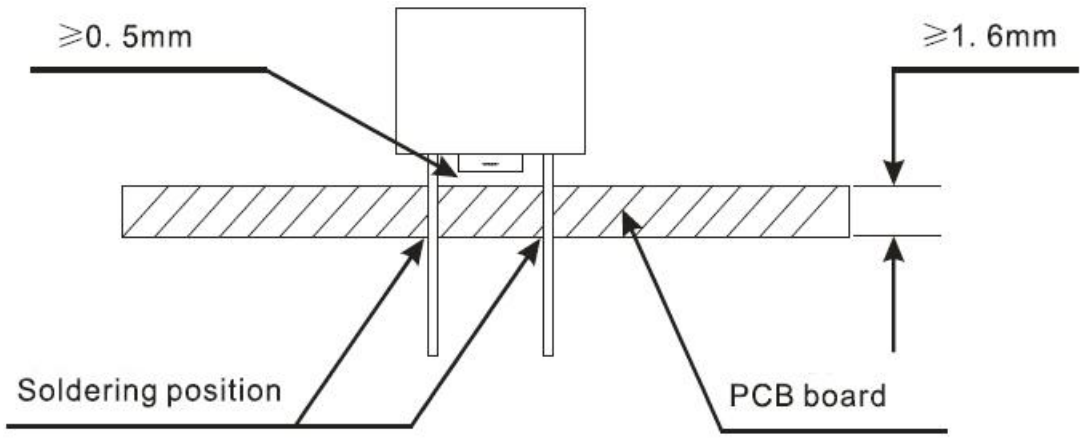
- Operating Temperature: -55℃～+125℃.
- Stock Condition: Humidity: Relative humidity ≤ 75%, store 3 years average.
- When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30℃, engineer should consider the environmental temperature's affection to fuses.

Please refer: Temperature Rerating Curve:



Installation Recommendations

Propose installation way as following picture:



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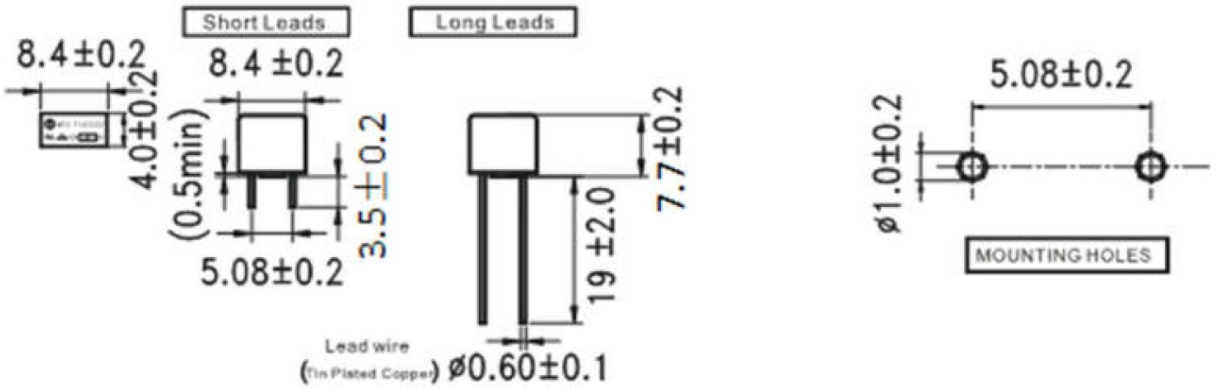
Recommended Soldering Parameters

- Wave Parameters: Solder Pot Temperature: 260℃ Max; Solder Dwell Time: 2~5s.
- Hand-Solder Parameters: Solder Iron Temperature: 350±5℃; 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