

# Time-Lag Radial Lead Micro Fuse

## SCMTS Series

### Product Characteristics

- ◆ Lead Pull Strength: 5N 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.
- ◆ 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°C, 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°C.
- ◆ 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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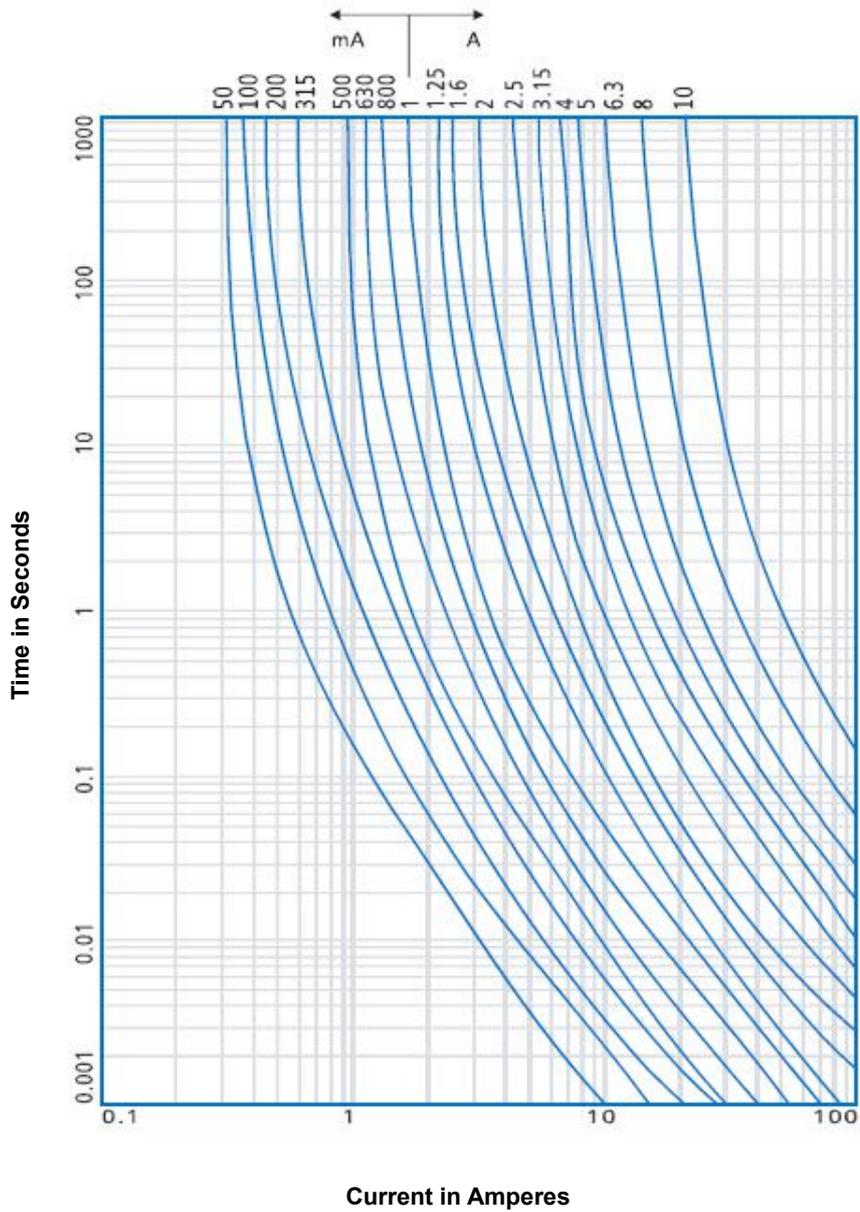
### Electrical Characteristics

Part Number	Ampere Rating	Voltage Rating (V)	Max Voltage Drop (mV)	I <sup>2</sup> T Melting Integral(A <sup>2</sup> .S)
SCMETS0050A	50mA	250	555	0.02
SCMETS0100A	100mA	250	355	0.11
SCMETS0125A	125mA	250	323	0.12
SCMETS0160A	160mA	250	296	0.17
SCMETS0200A	200mA	250	272	0.21
SCMETS0250A	250mA	250	251	0.41
SCMETS0315A	315mA	250	237	0.63
SCMETS0400A	400mA	250	211	1.22
SCMETS0500A	500mA	250	202	2.34
SCMETS0630A	630mA	250	191	2.88
SCMETS0800A	800mA	250	172	3.92
SCMETS1100A	1A	250	200	5.77
SCMETS1125A	1.25A	250	200	8.34
SCMETS1160A	1.6A	250	190	13.60
SCMETS1200A	2A	250	170	25.90
SCMETS1250A	2.5A	250	170	42
SCMETS1300A	3A	250	165	45
SCMETS1315A	3.15A	250	150	64
SCMETS1400A	4A	250	130	92
SCMETS1500A	5A	250	130	140
SCMETS1630A	6.3A	250	130	208
SCMETS1800A	8A	250	100	265
SCMETS2100A	10A	250	100	295
SCMETS2200A	20A	250	81	305

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### Average Time Current Curves



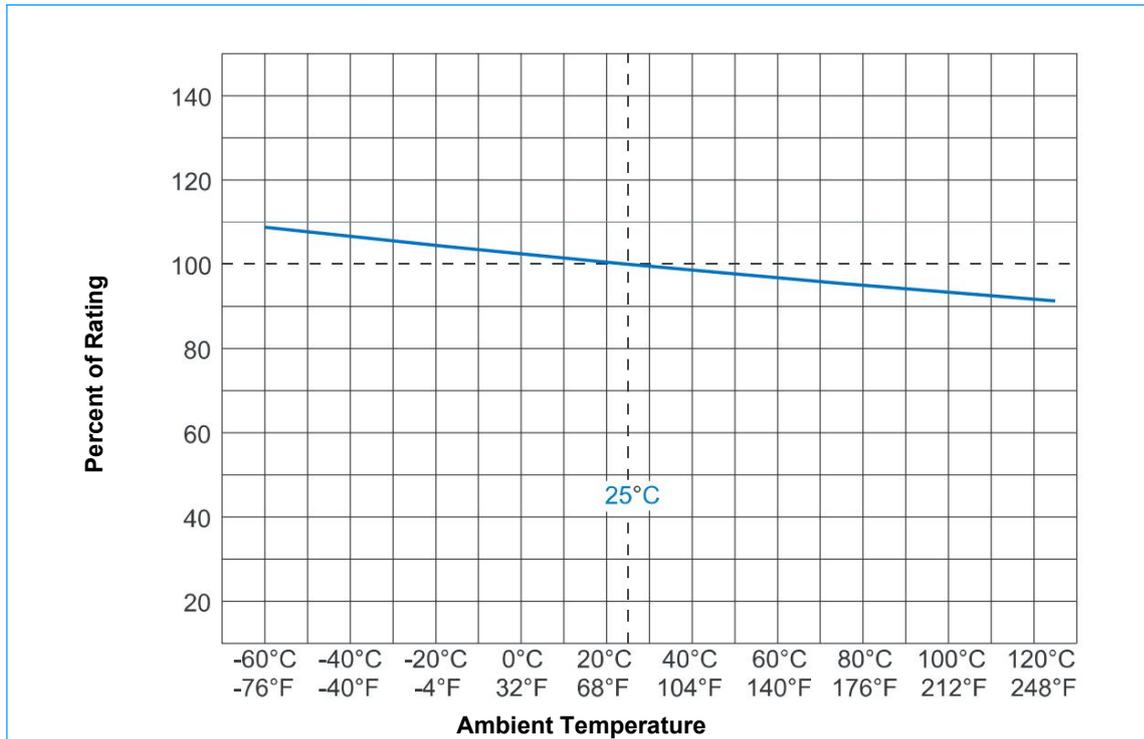
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### Environmental Characteristics

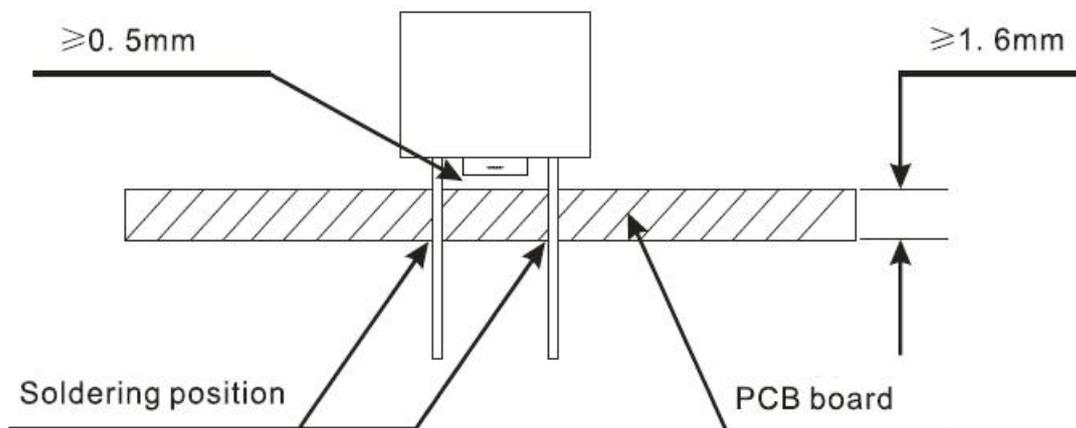
- ◆ Operating Temperature:  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ .
- ◆ Stock Condition: Humidity: Relative humidity  $\leq 75\%$ , store 3 years average.
- ◆ When choosing the fuse's specification, if the operating environmental temperature beyond the scope from  $20 \sim 30^{\circ}\text{C}$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

Please refer: Temperature Rerating Curve:



### Installation Recommendations

Propose installation way as following picture:



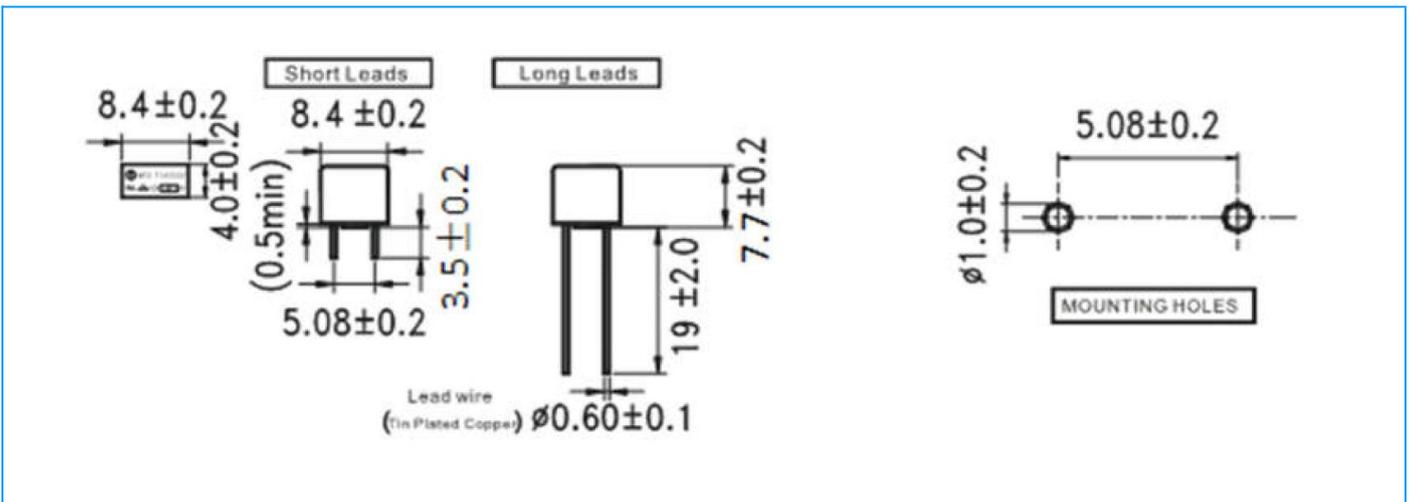
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### Recommended Soldering Parameters

- ◆ 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