



Radial Lead Resettable Polymer PTCs

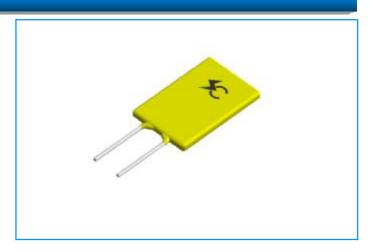
SC135-3500SZ0D

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u Operation Current: 3.5A, Maximum Voltage: 120Vdc, Operating Temperature: -40 ℃ to +85 ℃



- USB hubs, ports and peripherals
- u Power ports
- u IEEE1394 ports
- **u** Motor protection
- Automotive application
- Computers and peripherals
- General electronics



Electrical Parameters

| Part Number | I hold (A) | I trip (A) | V _{max} (Vdc) | I _{max} (A) | P _{dtyp} (W) | Maximum Time To Trip | | Resistance | | |
|----------------|------------|------------|------------------------|----------------------|-----------------------|-------------------------|-------------|-------------------------|----------------------|-----------------------|
| | | | | | | Current (A) | Time (S) | R _{min} (Ω) | R _{max} (Ω) | R1 _{max} (Ω) |
| SC135-3500SZ0D | 3.5 | 7.0 | 120 | 20 | 6.5 | 17.5 | 12.0 | 0.060 | 0.095 | 0.143 |

I hold= Hold current: maximum current at which the device will not trip at 25°C still air.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

I trip= Trip current: minimum current at which the device will always at 25°C still air.

V _{max}= Maximum voltage device can withstand without damage at rated current.

I max= Maximum fault current device can withstand without damage at rated voltage.

T trip=Maximum time to trip(s) at assigned current.

P_{dtyp.}= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R $_{\text{min}}$ = Minimum device resistance at 25 $^{\circ}$ C prior to tripping.

 $R1_{\text{max}}\text{=}$ Maximum resistance of device at $25\,^{\circ}\!\text{C}\,$ measured one hour after tripping.

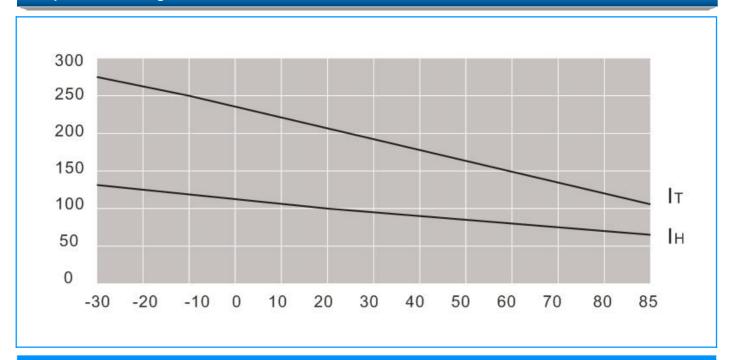




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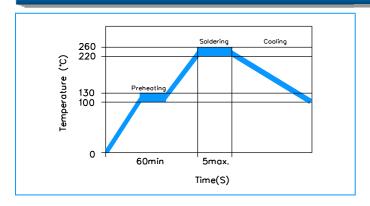
Temperature Derating Curve



Test Procedures and Requirement

| Test | Test Conditions | Accept/Reject Criteria | | |
|-----------------|---|-------------------------------|--|--|
| Resistance | In still air @25±2°C | $R_{min} \leq R \leq R_{max}$ | | |
| Hold Current | 60 min, at I _{hold} , In still air @25±2°C | No trip | | |
| Time to Trip | Specified current, V _{max} , @25±2°C | T≤Maximum Time To Trip | | |
| Trip Cycle Life | V _{max} , I _{max} ,100 cycles | No arcing or burning | | |
| Trip Endurance | Vmax,24hours | No arcing or burning | | |

Soldering Parameters



| Pre-Heating Zone | Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec | | |
|------------------|---|--|--|
| Soldering Zone | Max. solder temperature should not exceed 260°C | | |
| Cooling Zone | Cooling by natural convection in air | | |





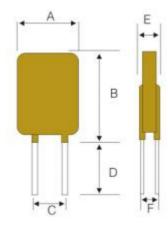
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Physical Specifications

| Lead Material | 0.03-1.85A Tin-plated Copper clad steel 2.50-5.00A Tin-plated Copper | | | | |
|---------------------------|---|--|--|--|--|
| Soldering Characteristics | Solder ability per MIL-STD-202, Method 208E | | | | |
| Insulating Material | Cured, flame retardant epoxy polymer meets UL 94V-0 requirements. | | | | |
| Device Labeling | Marked with 'SC', voltage, current rating | | | | |

Dimensions



| Part Number | Dimensions (mm) | | | | | Lead Material | | |
|----------------|-----------------|---------|---------|---------|---------|-------------------|--|--|
| Fait Nulliber | A (Max) | B (Max) | С (Тур) | D (Min) | E (Max) | Tinned Metal (mm) | | |
| SC135-3500SZ0D | 25.0 | 28.5 | 10.2 | 7.6 | 4.2 | Ф0.80 | | |

Packaging Quantity

| Part Number | Quantity (pcs/bagl) | | |
|----------------|---------------------|--|--|
| SC135-3500SZ0D | 100 | | |

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