

Radial Lead Resettable Polymer PTCs

SC135-3000SZ0D

Features

- **RoHS** Compliant and Halogen-Free ٠
- **Radial leaded Devices**
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 3.0 A, Maximum Voltage: 120 Vdc, Operating Temperature: -40°C to +85°C

Applications

- USB hubs, ports and peripherals ٠
- Power ports
- IEEE1394 ports
- Motor protection
- Automotive application
- Computers and peripherals ٠
- General electronics

Electrical Parameters

Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	l _{max} (A)	P _{dtyp} (W)	Maximum Time To Trip		Resistance	
						Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
SC135-3000SZ0D	3.0	6.0	120	20	6.5	15.0	25.0	0.062	0.16

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

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

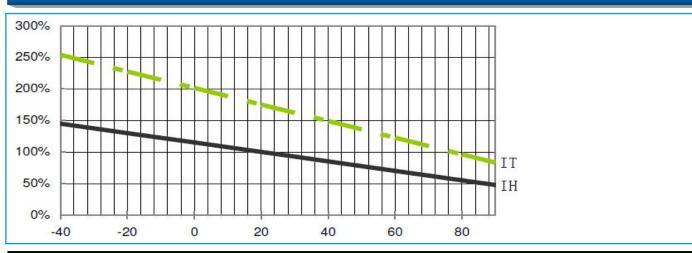
P_{dyp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

 R_{min} = Minimum device resistance at 25°C prior to tripping. R max= Maximum device resistance at 25°C prior to tripping.

 $R1_{max}$ = Maximum resistance of device at 25 °C measured one hour after tripping.

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

Temperature Derating Curve



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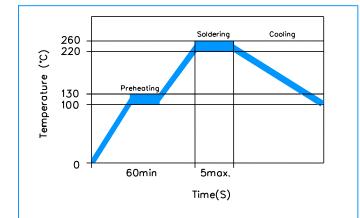
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Test Procedures and Requirement

Test	Test Conditions	Accept/Reject Criteria		
Resistance	In still air @25±2°C	$R_{min} \leqslant R \leqslant R_{max}$		
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 exceed 260°C					
Cooling Zone	Cooling by natural convection in air				

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			

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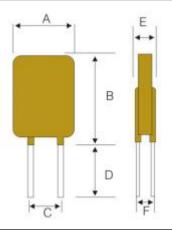


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Dimensions



Part Number	Dimensions (mm)						
r art Nulliber	A (Max)	B (Max)	С (Тур)	D (Min)	Е (Тур)	F (Тур)	
SC135-3000SZ0D	25.8	30.2	10.2	7.6	4.0	/	

Packaging Quantity

Part Number	Quantity (pcs/reel)
SC135-3000SZ0D	100

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3/3

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