

Radial Lead Resettable Polymer PTCs

SC250-900SZ0D

Features

- u **RoHS** Compliant and Halogen-Free
- Radial leaded Devices u
- u Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 0.90A, Maximum Voltage: 220Vdc, u Operating Temperature: -40°C to +85°C

Applications

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

Electrical Parameters

Part Number			V _{max} I _{ma}	I _{max}	max P _{dtyp}	Maximum Time To Trip		Resistance		
	I _{hold} (A)	I _{trip} (A)	(Vdc)	(A)	(W)	Current (A)	Time (S)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
SC250-900SZ0D	0.90	1.80	220	3.0	5.5	4.5	20.0	0.50	0.80	1.20

I hold= Hold current: maximum current at which the device will not trip at 25 $^\circ\!\!{\rm C}$ 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_{dtyp}= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R _{min}= Minimum device resistance at 25℃ prior to tripping.

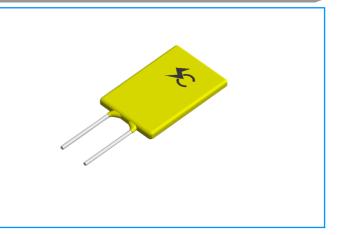
R $_{\text{max}}\text{=}$ Maximum device resistance at 25 $^\circ\!\mathrm{C}$ prior to tripping.

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

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

Temperature Rerating Chart - I hold (A)

Ambient Operation Temperature	-40° ℃	-20° ℃	0° C	23℃	30° ℃	40° ℃	50 ℃	60° C	70 ℃	85 ℃
Percentage Reduction	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%



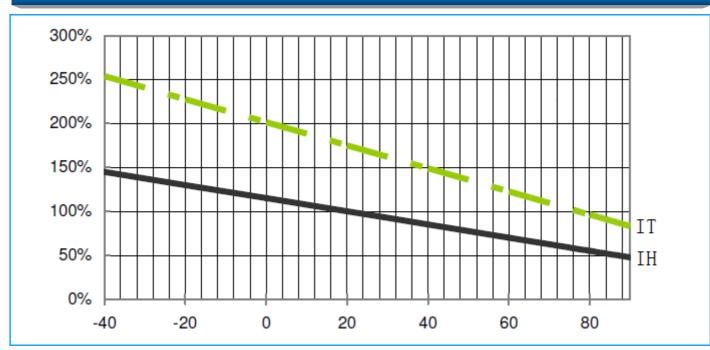


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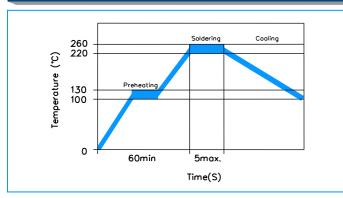
Temperature Derating Curve



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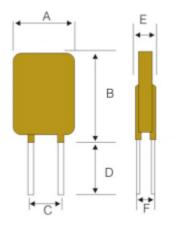
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Lead Material	0.03-1.85A Tin-plated Copper clad steel 2.50-5.00A Tin-plated Copper	
Soldering Characteristics	Solder ability per MIL-STD-202, Method 208E	
Insulating Material	Cured, flame retardant epoxy polymer meets UL 94V-0 requirements.	
Device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

Dimensions



Dort Number		Lead Material					
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Тур)	Tinned Metal (mm)
SC250-900SZ0D	17.5	25.5	10.2	7.6	4.6	1.5	Ф0.80

Packaging Quantity					
Part Number	Quantity (pcs/reel)				
SC250-900SZ0D	200				

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