

B HF Rohs

## **Radial Lead Resettable Polymer PTCs**

## SC250-800SZ0D

#### **Features**

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.80 A, Maximum Voltage: 220Vdc, Operating Temperature: -40℃ to +85℃

#### Applications

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

#### **Electrical Parameters**

Part Number I	l <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	l <sub>max</sub> (A)	P <sub>dtyp</sub> (W)	Maximum Time To Trip		Resistance		
		• trip (~)				Current (A)	Time (S)	R <sub>min</sub> (Ω)	R <sub>max</sub> (Ω)	R1 <sub>max</sub> (Ω)
SC250-800SZ0D	0.80	1.60	220	3.0	4.5	4.0	15.0	0.50	0.80	1.30

I  $_{\text{hold}}\text{=}$  Hold current: maximum current at which the device will not trip at 25  $^\circ\!\!\!\!\!^\circ$  still air.

I  $_{trip}\text{=}$  Trip current: minimum current at which the device will always at 25  $^\circ\!\mathrm{C}$  still air.

V <sub>max</sub>= Maximum voltage device can withstand without damage at rated current. I <sub>max</sub>= Maximum fault current device can withstand without damage at rated voltage.

T  $_{\text{trip}}$ =Maximum time to trip(s) at assigned current.

P<sub>dtyp.</sub>= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

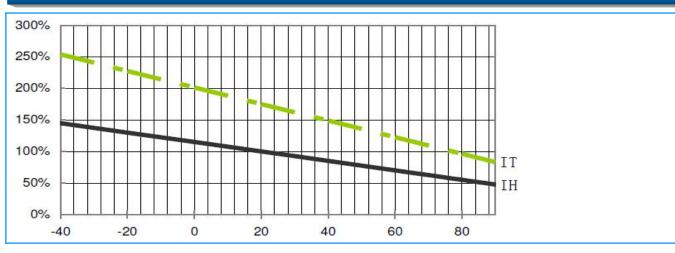
R min= Minimum device resistance at 25 °C prior to tripping.

R max= Maximum device resistance at 25 °C prior to tripping.

R1<sub>max</sub>= 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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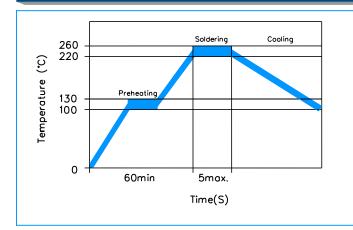
# Radial Lead Resettable Polymer PTCs

## SC250-800SZ0D

#### **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 <sub>hold</sub> , In still air @25±2°C	No trip		
Time to Trip	Specified current, V <sub>max</sub> , @25±2°C	T≤Maximum Time To Trip		
Trip Cycle Life	V <sub>max</sub> , I <sub>max</sub> ,100 cycles	No arcing or burning		
Trip Endurance	V <sub>max</sub> ,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				

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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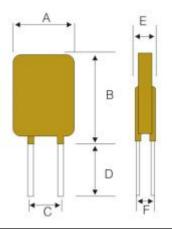


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## SC250-800SZ0D

## Dimensions



Part Number	Dimensions (mm)						
r art Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	Lead(ф)	
SC250-800SZ0D	15.5	20.5	5.1	7.6	4.1	0.80	

### **Packaging Quantity**

Part Number	Quantity (pcs/reel)
SC250-800SZ0D	500