



## Radial Lead Resettable Polymer PTCs

#### SC250-120SZ0D

#### **Features**

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- ◆ Flame retardant epoxy polymer insulating material meets UL94 V-0 requirement.
- ◆ Operation Current: 0.12 A, Maximum Voltage: 220Vdc, Operating Temperature: -40℃ to +85℃



- ◆ IT equipment
- Access network equipment
- Central office equipment
- ISDN and xDSL equipments
- Phone set and fax machine
- LAN/WAN and VOIP cards



#### **Electrical Parameters**

Part Number	I <sub>hold</sub>	I trip	V max	I <sub>max</sub>	Maximum Time To Trip		Resistance		
rarewallisei	(A)	(A)	(Vdc)	(A)	(W)	Current (A)	Time (S)	R <sub>min</sub> (Ω)	R <sub>1max</sub> (Ω)
SC250-120SZ0D	0.12	0.24	220	3.0	1.0	0.60	15.0	8.0	18.0

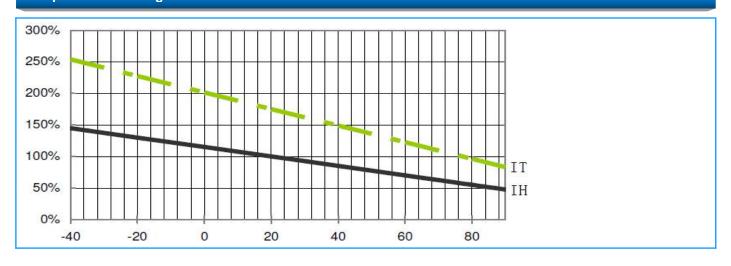
I  $_{\text{hold}}$ = Hold current: maximum current at which the device will not trip at 25  $^{\circ}$ C still air.

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

 $R_{1\text{max}}$ = Maximum resistance of device at 25  $^{\circ}$ C measured one hour after tripping.

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

#### **Temperature Derating Curve**



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

I  $_{\text{max}}$ = Maximum fault current device can withstand without damage at rated voltage.

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





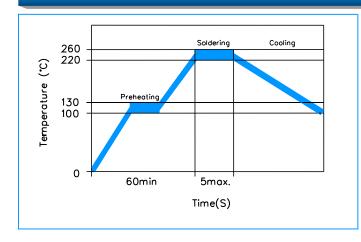
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## SC250-120SZ0D

#### **Test Procedures and Requirement**

Test	Test Conditions	Accept/Reject Criteria		
Resistance	In still air @25±2°C	$R_{min} \leq R \leq R_{1max}$		
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 a					

### **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			

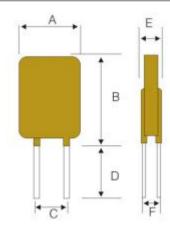




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### **Dimensions**



Part Number	Dimensions (mm)						
r are realise.	A (Max)	B (Max)	C (Typ)	D (Min)	E (Max)	Lead(ф)	
SC250-120SZ0D	7.0	13.0	5.1	7.6	4.4	0.60CP	

## **Packaging Quantity**

Part Number	Quantity (Pcs/Bag)		
SC250-120SZ0D	1000		