



Radial Lead Resettable Polymer PTCs

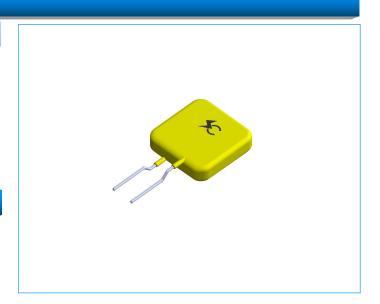
SC250-250SW0D

Features

- Radial leaded devices
- Over-current protection
- High voltage surge capabilities
- ♦ Flame retardant epoxy polymer insulating material meets UL94 V-0 requirement
- ♦ Available in lead-free version
- ♦ Meets MSL level 1, per J-STD-020
- ◆ Operating Temperature: -40°C~+85°C

Applications

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



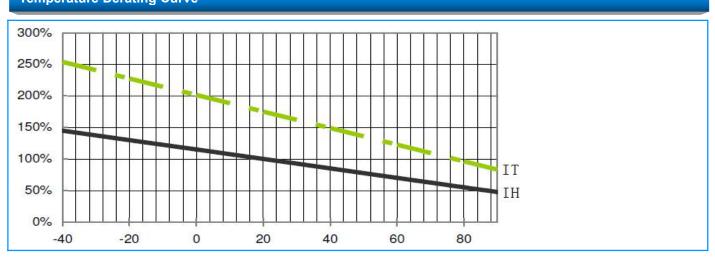
Electrical Parameters

Part Number	I hold (A)	I _{trip} (A)	V _{max}	I _{max}	P _{dtyp} (W)	Maximum Time To Trip		Resistance	
r art Hamber	i noid (A)	• trip (~)	(Vdc)	(A)		Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
SC250-250SW0D	0.25	0.50	250	3.0	1.5	1.25	20.0	2.0	7.5

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 Derating Curve



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 $_{\text{max}}$ = 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.





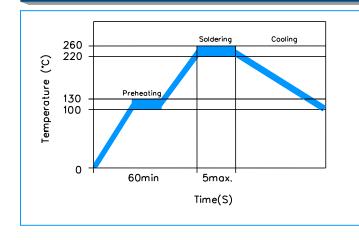
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Test Procedures and Requirement

Test	Test Conditions	Accept/Reject Criteria		
Resistance	In still air @25±2°C	$R_{min} \leq R \leq R1_{max}$		
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	V _{max} ,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		

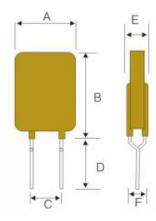




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Dimensions



Part Number	Dimensions (mm)						
rarramser	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	Lead(ф)	
SC250-250SW0D	9.5	13.5	5.1	7.6	4.4	0.60	

Packaging Quantity

Part Number	Quantity (pcs/bag)		
SC250-250SW0D	1000		