



Radial Lead Resettable Polymer PTCs

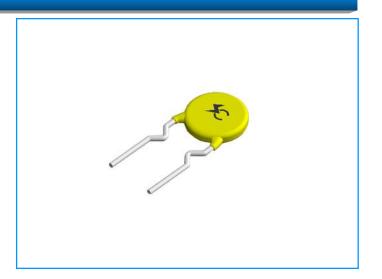
SC16-050CW0D

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



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



Electrical Parameters

Dout Mumbou	ber I hold (A) I trip (A) V max (Vdc) I max (W)	$P_{ ext{dtyp}}$	Maximum Time To Trip		Resistance				
Part Number		I trip (A)		(A)		Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
SC16-050CW0D	0.5	1.00	16	40	1.0	2.50	10.0	0.200	0.750

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°C prior to tripping.

R_{1max}= 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.

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

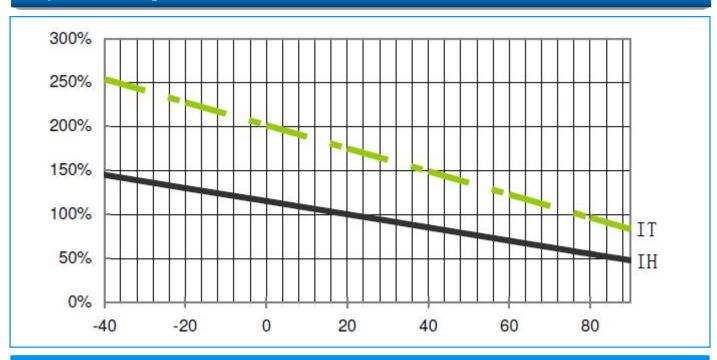




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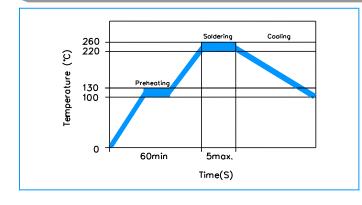
Temperature Derating Curve



Test Procedures and Requirement

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





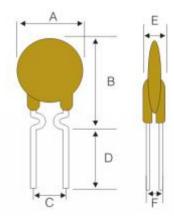
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Physical Specifications

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		

Dimensions



Don't Number	Dimensions (mm)						Lead Material	
Part Number	A (Max)	B (Max)	C (Typ)	D (Min)	E (Max)	F (Typ)	Tinned Metal (mm)	
SC16-050CW0D	7.4	13.0	5.1	7.6	3.0	0.8	Ф0.50	

Packaging Quantity

Part Number	Quantity (pcs/reel)		
SC16-050CW0D	1000		