



Radial Lead Resettable Polymer PTCs

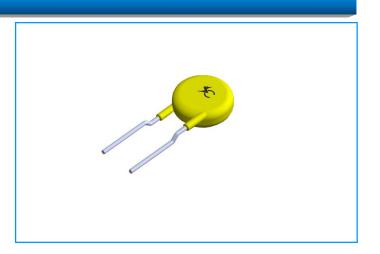
SC250-040CW0D

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.04A, Maximum Voltage: 220Vdc,
 Operating Temperature: -40℃ to +85℃

Applications

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



Electrical Parameters

	Part Number	I _{hold} (A)	I trip (A)	V _{max} (Vdc)	I _{max} (A)	P _{dtyp} (W)	Maximum Time To Trip		Resistance	
							Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
	SC250-040CW0D	0.04	0.08	220	3.0	1.0	0.20	10.0	33.0	97.5

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 _{max}= Maximum device resistance at 25 °C prior to tripping.

R1_{max}= Maximum resistance of device at 25 $^{\circ}\mathrm{C}$ 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℃	23 ℃	30℃	40 ℃	50℃	60℃	70 ℃	85℃
Percentage Reduction	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

 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.

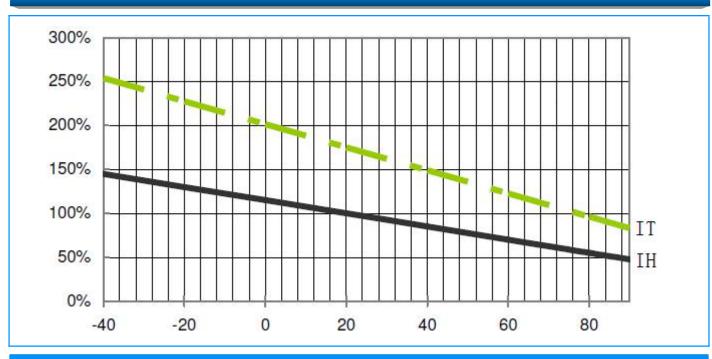




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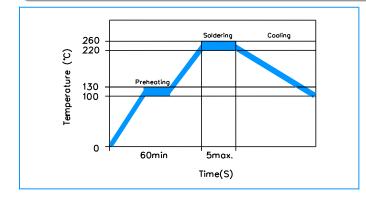
Temperature Derating Curve



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			





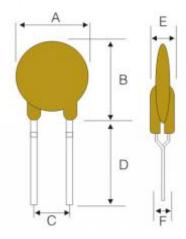
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Physical Specifications

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



Part Number	Dimensions (mm)							
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)		
SC250-040CW0D	5.8	9.9	5.1	7.6	3.8	1		

Packaging Quantity

Part Number	Quantity (pcs/reel)			
SC250-040CW0D	1000			