



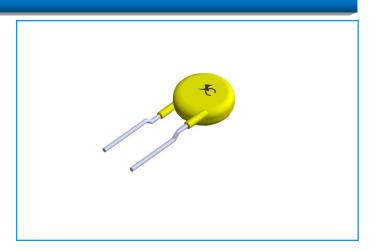
SC250-050CW1D

Features

- ◆ RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.05A, Maximum Voltage: 250Vdc, Operating Temperature: -40°C to +85°C

Applications

- USB hubs, ports and peripherals
- Power ports
- ♦ IEEE1394 ports
- Motor protection
- 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)
	SC250-050CW1D	0.05	0.10	250	3.0	1.0	0.25	10.0	14.0	51.0

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

 $P_{dtyp.}$ = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

 R_{min} = Minimum device resistance at 25 $^{\circ}$ C prior to tripping.

 R_{max} = Maximum device resistance at 25 $^{\circ}$ C prior to tripping.

 $R1_{max}$ = 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 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%

 I_{trip} = Trip current: minimum current at which the device will always at 25 $^{\circ}$ 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.

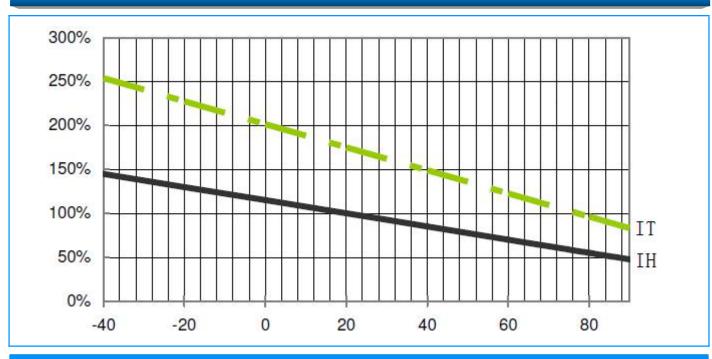
T trip=Maximum time to trip(s) at assigned current.





SC250-050CW1D

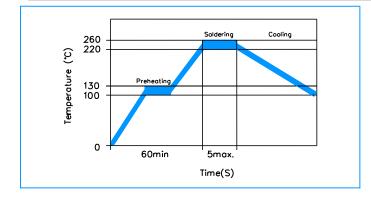
Temperature Derating Curve



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			



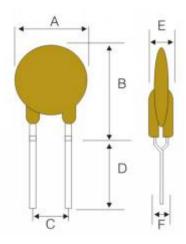


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Physical Specifications

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



Dout Number	Dimensions (mm)							
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)		
SC250-050CW1D	6.0	12.0	5.1	7.6	4.4	1		

Packaging Quantity

Part Number	Quantity (pcs/bag)		
SC250-050CW1D	1000		

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SC250-050CW1D

Warning



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