



Radial Lead Resettable Polymer PTCs

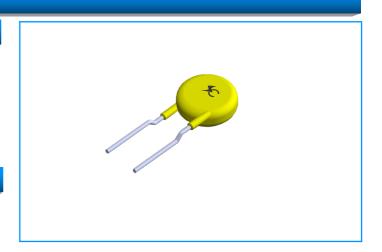
SC250-180CW0D

Features

- RoHS Compliant and Halogen-Free
- u Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u Operation Current: 0.18A, Maximum Voltage: 220Vdc, Operating Temperature: -40°C to +85°C



- u USB hubs, ports and peripherals
- u Power ports
- u IEEE1394 ports
- Motor protection
- Automotive application
- u 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)	R _{max} (Ω)	R1 _{max} (Ω)
SC250-180CW0D	0.18	0.50	220	3.0	1.5	0.90	15.0	1.6	3.2	5.0

I hold= Hold current: maximum current at which the device will not trip at 25°C still air.

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 $^{\circ}$ 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%

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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.

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

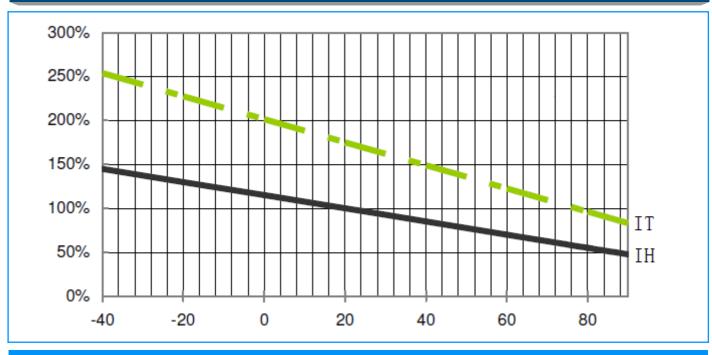




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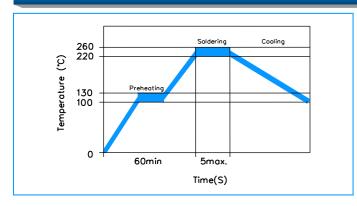
Temperature Derating Curve



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			





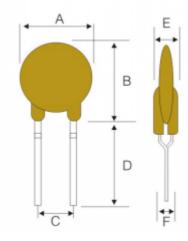
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Physical Specifications

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



Dort Number		Lead Material					
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)	Tinned Metal (mm)
SC250-180CW0D	9.0	13.0	5.1	7.6	3.6	/	Ф0.60

Packaging Quantity

Part Number	Quantity (pcs/reel)
SC250-180CW0D	1000