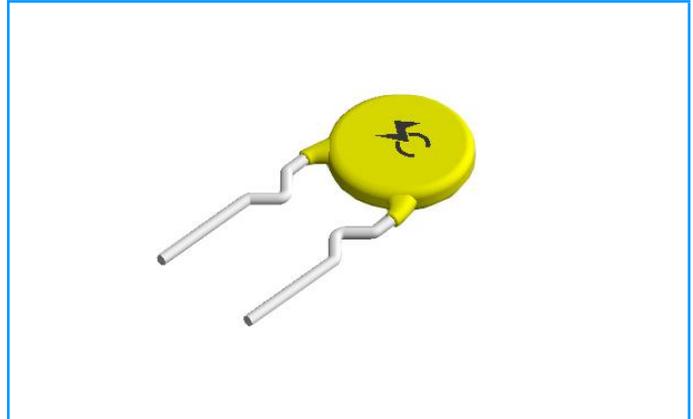


## Radial Lead Resettable Polymer PTCs

### SC6-050CW0D

#### Features

- ◆ RoHS Compliant and Halogen-Free
- ◆ Radial leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.50A, Maximum Voltage: 6Vdc, Operating Temperature: -40°C to +85°C



#### Applications

- ◆ Computers and peripherals
- ◆ Power ports
- ◆ General electronics

#### Electrical Parameters

Part Number	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>dtyp</sub> (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R <sub>min</sub> (mΩ)	R <sub>max</sub> (mΩ)	R <sub>1max</sub> (mΩ)
SC6-050CW0D	0.50	1.0	6	40	0.4	2.50	1.1	200	500	760

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

I<sub>trip</sub>= Trip current: minimum current at which the device will always trip at 25°C still air.

V<sub>max</sub>= Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>= Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>=Maximum time to trip(s) at assigned current.

P<sub>dtyp</sub>= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R<sub>min</sub>= Minimum device resistance at 25°C prior to tripping.

R<sub>max</sub>= Maximum device resistance at 25°C prior to tripping.

R<sub>1max</sub>= 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.

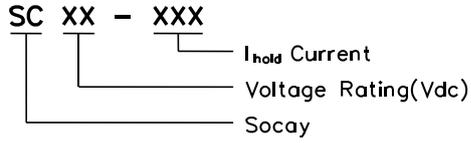
#### Thermal Derating Chart – I<sub>hold</sub> (A)

Part Number	Maximum Ambient Operation Temperature									
	-40°C	-20°C	0°C	23°C	30°C	40°C	50°C	60°C	70°C	85°C
	Percentage Reduction									
SC6-050CW0D	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

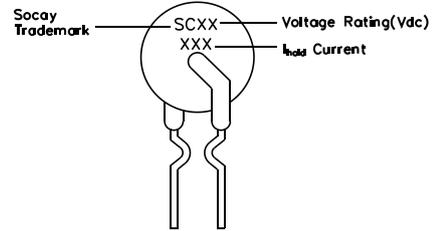
# Radial Lead Resettable Polymer PTCs

## SC6-050CW0D

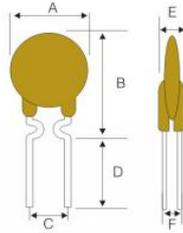
### Part Numbering



### Part Marking



### Dimensions



Part Number	Dimensions (mm)						Lead Material
	A (Max)	B (Max)	C (Typ)	D (Min)	E(Max)	F(Typ)	Tinned Metal (mm)
SC6-050CW0D	4.5	9.0	5.1	7.6	3.0	4.0	24 AWG/Φ0.5