

Radial Lead Resettable Polymer PTCs

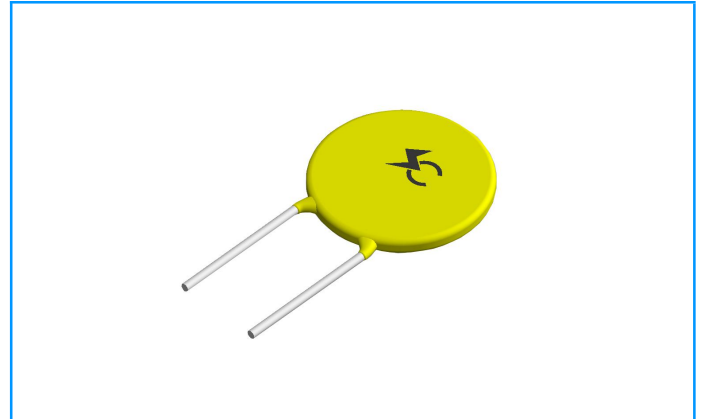
SC60-500CZ0D

Features

- ◆ RoHS Compliant and Halogen-Free
- ◆ Radial leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 5.00A, Maximum Voltage: 60Vdc, Operating Temperature: -40°C to +85°C

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} (mΩ)	R _{max} (mΩ)	R1 _{max} (mΩ)
SC60-500CZ0D	5.00	10.0	60	40	3.20	20.0	20.0	12	30	50

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

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.

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° C measured one hour after tripping.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

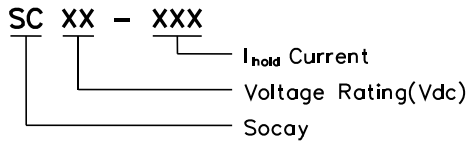
Thermal Derating Chart – I_{hold} (A)

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									
SC60-500CZ0D	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

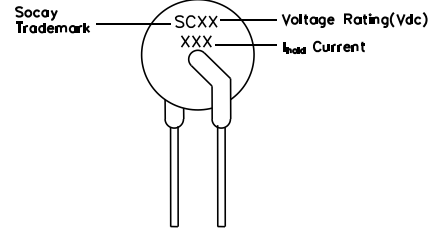
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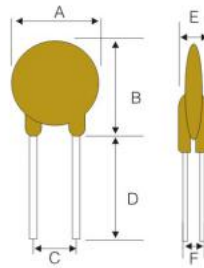
Part Numbering



Part Marking



Dimensions



Part Number	Dimensions (mm)						Lead Material
	A (Max)	B (Max)	C (Typ)	D (Min)	E(Max)	F(Typ)	Tinned Metal (mm)
SC60-500CZ0D	27.2	31.8	10.2	7.6	3.1	1.4	20 AWG/Φ0.8