

Radial Lead Resettable Polymer PTCs

SC60-090CZ0D

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 0.90 A, Maximum Voltage: 60Vdc, 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}	I max P _{dtyp} (A) (W)	I _{max}			Maximum Time To Trip		Resistance	
	• noia (~)	• trip (~)	(Vdc)		(W)	Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)		
SC60-090CZ0D	0.90	1.80	60	40	1.00	4.5	7.2	0.14	0.465		

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

I $_{\text{trip}}\text{=}$ Trip current: minimum current at which the device will always at 25 $^\circ\!\!\!\!\mathrm{C}$ 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.

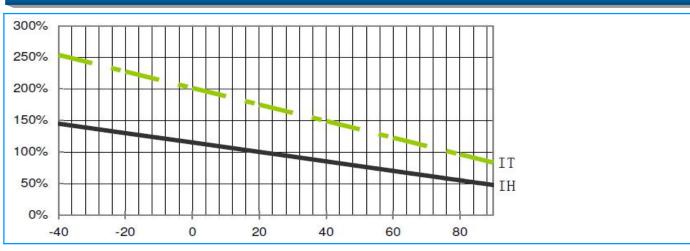
R $_{\text{min}}\text{=}$ Minimum device resistance at 25 $^\circ\!\!\mathbb{C}$ $\,$ prior to tripping.

R $_{max}\text{=}$ Maximum device resistance at 25 $^\circ\!\!\!\mathrm{C}$ prior to tripping.

R1_{max}= Maximum resistance of device at 25 $^\circ\!\!\mathbb{C}$ measured one hour after tripping.

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

Temperature Derating Curve



SOCAY Electronics Corp., Ltd.





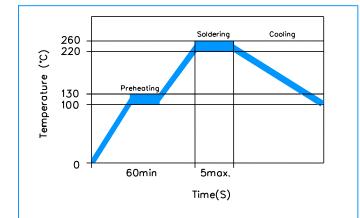
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Test Procedures and Requirement

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @25±2°C	$R_{min} \leqslant R \leqslant R_{max}$
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		

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			

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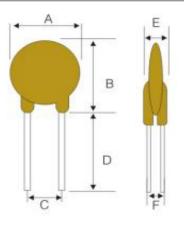


B HF RoHS

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Dimensions



Part Number	Dimensions (mm)						
	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Тур)	
SC60-090CZ0D	11.2	16.0	5.1	7.6	3.1	1.1	

Packaging	Quantity
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Part Number	Quantity (pcs/reel)
SC60-090CZ0D	1000