

Radial Lead Resettable Polymer PTCs

SC60-020CZ0D

Features

- Radial leaded devices
- Over-current protection
- High voltage surge capabilities
- flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ♦ Available in lead-free version
- ♦ Meets MSL level 1, per J-STD-020
- Operation Current: 0.20A, Maximum Voltage: 60Vdc,
 Operating Temperature: -40[°]C to +85[°]C

Applications

- IT equipment
- Access network equipment
- Central office equipment
- ♦ ISDN and xDSL equipments
- Phone set and fax machine
- ◆ LAN/WAN and VOIP cards

Electrical Parameters

Part Number	I hold (A)	I trip (A)	V _{max} (Vdc)	l max (A)	P _{dtyp} (W)	Maximum Time To Trip		Resistance	
						Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
SC60-020CZ0D	0.20	0.40	60	40	1.00	1.00	10.0	1.50	4.26

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

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

V $_{\mbox{\scriptsize max}}\mbox{=}$ 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° prior to tripping.

 $R1_{max}\text{=}$ 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 ℃	25 ℃	30 ℃	40 ℃	50 ℃	60° ℃	70℃	85℃
Percentage Reduction	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

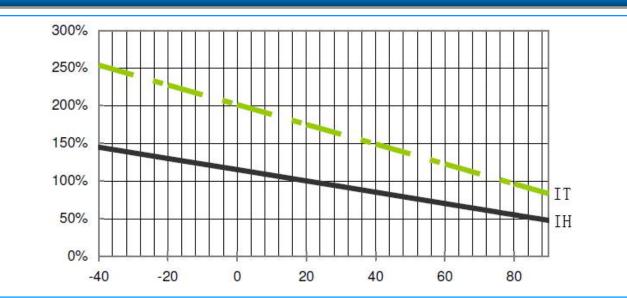


B HF RoHS

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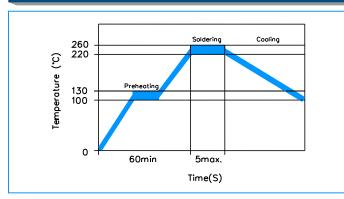
Temperature Derating Curve



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			

SOCAY Electronics Corp., Ltd.

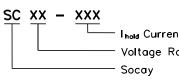


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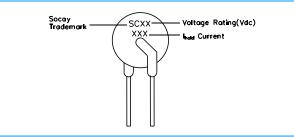
Physical Specifications					
Lead Material	0.03-1.85A Tin-plated Copper clad steel 2.50-5.00A Tin-plated Copper				
Soldering Characteristics	Solder ability per MIL-STD-202, Method 208E				
Insulating Material	Cured, flame retardant epoxy polymer meets UL 94V-0 requirements.				
Device Labeling	Marked with 'SC', voltage, current rating				

Part Numbering

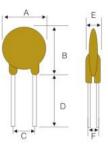


- I_{hold} Current - Voltage Rating(Vdc) - Socay

Part Marking



Dimensions



Part Number		Lead Material					
	A (Max)	B (Max)	С (Тур)	D (Min)	E(Max)	F(Typ)	Φ
SC60-020CZ0D	7.4	7.5	5.1	7.6	3.1	0.9	0.50CP

Packing Quantity					
Part Number	Quantity				
SC60-020CZ0D	1000 PCS/Bag				