



Radial Lead Resettable Polymer PTCs

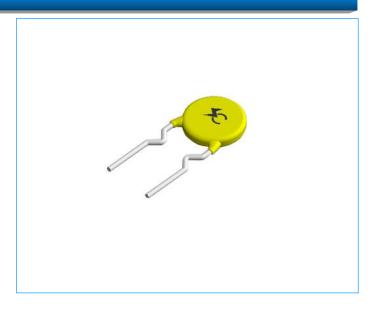
SC30-050CW0D

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 0.5 A, Maximum Voltage: 30 Vdc, 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

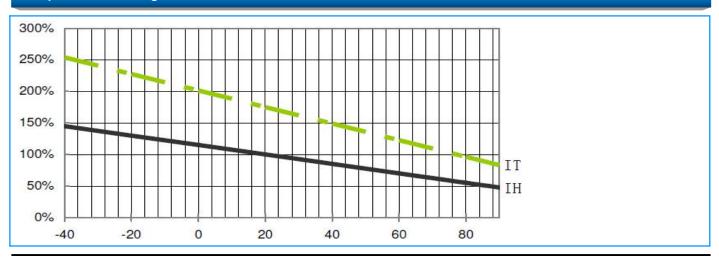
Part Number	1 (A)	L. (A)	V _{max}	I max Pdtyp (W)	${\sf P}_{\sf dtyp}$	Maximum Time To Trip		Resistance	
rait Number	I hold (A)	I trip (A)	(Vdc)			Current (A)	Time (S)	R _{min} (Ω)	R1 _{max} (Ω)
SC30-050CW0D	0.5	1.0	30	40	0.5	2.5	4.1	0.29	0.765

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℃ 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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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.





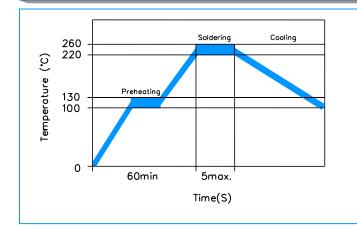
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Test Procedures and Requirement

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

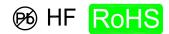


Pre-Heating Zone	Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec		
Soldering Zone	Max. solder temperature should not exceed 260°C		
Cooling Zone	Cooling by natural convection in air		

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		

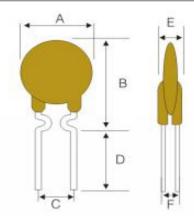




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Dimensions



Part Number	Dimensions (mm)					
r art Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)
SC30-050CW0D	7.0	12.5	5.1	7.6	3.0	0.9

Packaging Quantity

Part Number	Quantity (pcs/reel)		
SC30-050CW0D	1000		