SOCAY

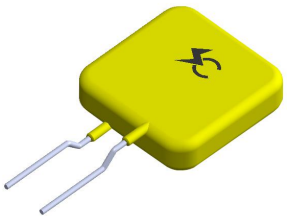
HF RoHS

Radial Lead Resettable Polymer PTCs

SC250-110SW0D

Features

- Radial leaded Devices
- Over-current protection
- High voltage surge capabilities
- Flame retardant epoxy polymer insulating material meets UL94 V-0 requirement
- Available in lead-free version
- Meets MSL level 1, per J-STD-020
- Relative Humidity: ≤80%RH
- Operation Current: 0.11A, Maximum Voltage: 220Vdc
- Operating Temperature: -40℃~+85℃



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} (V)	I_{max} (A)	P_{dtyp} (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R_{min} (Ω)	R_{max} (Ω)	$R1_{max}$ (Ω)
SC250-110SW0D	0.11	0.22	220	3	1.0	0.55	0.75	7	11	17

I_{hold}= Hold current: maximum current at which the device will not trip at 25℃ still air.
I_{trip}= Trip current: minimum current at which the device will always at 25℃ 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℃ prior to tripping.
R_{max}= Maximum device resistance at 25℃ 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℃	-20℃	0℃	23℃	40℃	50℃	60℃	70℃	85℃
	Percentage Reduction								
SC250-110SW0D	145%	130%	120%	100%	88%	80%	71%	66%	56%

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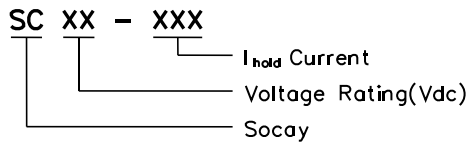
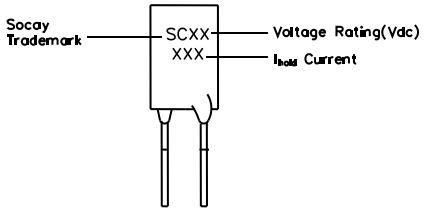
Test Procedures and Requirement

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

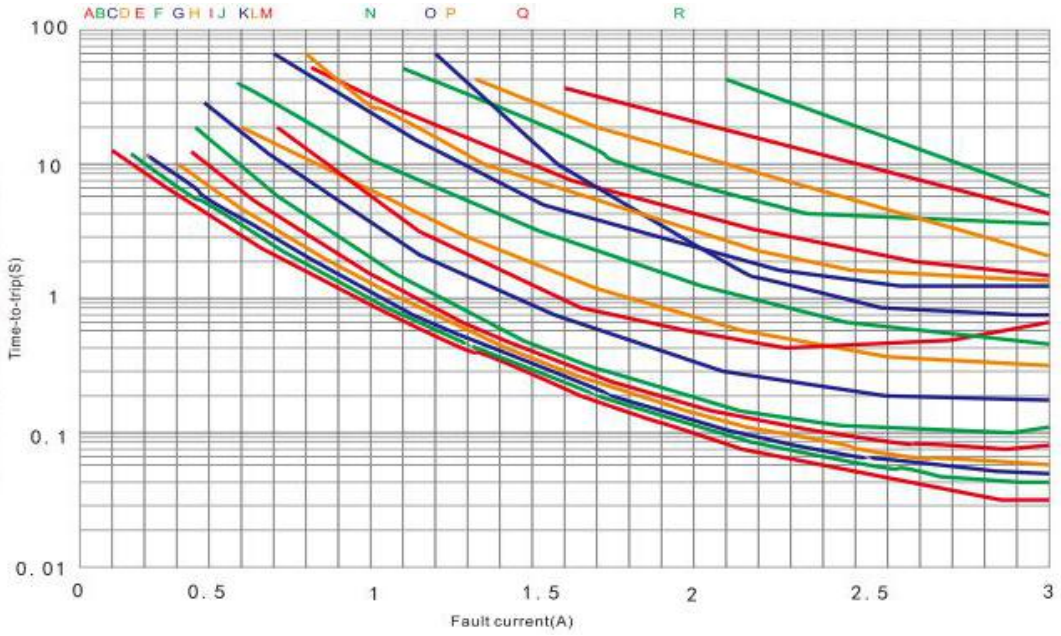
Part Numbering



Part Marking



Typical Time-To-Trip at 25℃±2℃



Note: G=SC250-110SW0D

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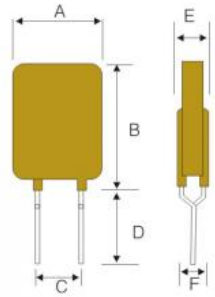
Dimensions



Part Number	Dimensions (mm)						Lead Material
	A (Max)	B (Max)	C (Typ)	D (Min)	E (Max)	F (Typ)	Tinned Metal (mm)
SC250-110SW0D	7.0	11.5	5.1	7.6	3.8	—	22 AWG/Φ0.6

Packaging Quantity

Part Number	Quantity (pcs/Bag)
SC250-110SW0D	1000