



Radial Lead Resettable Polymer PTCs

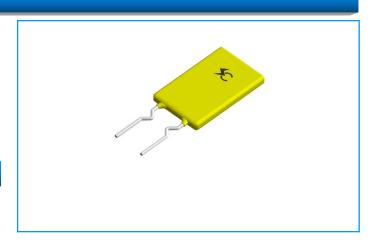
SC16-250SW0A

Features

- ◆ RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 2.50A, Maximum Voltage:16Vdc, Operating Temperature: -40℃ to +85℃

Applications

- Computers and peripherals
- Power ports
- General electronics



Electrical Parameters

Part Number	. (4)	I trip (A)	V _{max} (Vdc)	I _{max} (A)	P dtyp (W)	Maximum Time To Trip		Resistance		
	I hold (A)					Current (A)	Time (S)	R_{min} (m Ω)	R_{max} (m Ω)	R1 $_{max}$ (m Ω
SC16-250SW0A	2.50	5.0	16	40	1.2	7.5	12	27	55	70

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

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.

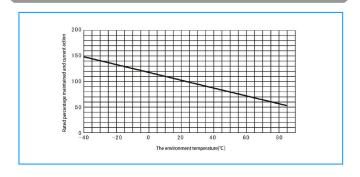
R _{max}= Maximum device resistance at 25 ℃ prior to tripping.

R1_{max}= Maximum resistance of device at 25° C measured one hour after tripping.

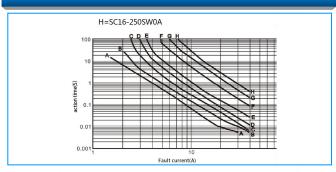
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

			M	aximum Am	bient Opera	tion Temper	erature				
Part Number	-40℃	-20 ℃	0℃	25 ℃	40℃	50℃	60℃	70 ℃	85℃		
	Hold Current (A)										
SC16-250SW0A	3.63	3.25	2.88	2.50	2.08	1.93	1.70	1.53	1.30		

Average Time Current Curves



Temperature Rerating Curve



Please refer to www.socay.com for current information.

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.





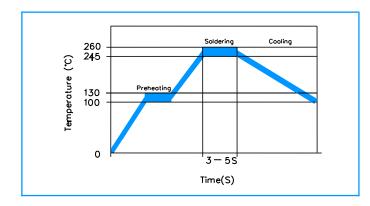
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Test Procedures and Requirements

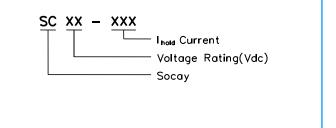
Test Item	Test Conditions	Accept/Reject Criteria		
Resistance	In still air @25℃	R _{min} ≤R≤R _{max}		
Hold Current	60 min, @ I _{hold}	No trip		
Time to Trip	Specified current, V _{max} , @25℃	T≤Maximum Time To Trip		
Frequency Current Withstand	V _{max} / I _{max} ,15 minute	Resistance change rate: ≤50%		
Trip Endurance	V _{max} / I _{max} ,24 hours	No arcing or burning		

Soldering Parameters

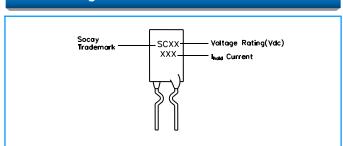


Pre-Heating Zone	Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec			
Soldering Zone	Max. solder temperature should not exceed 260 $^{\circ}\mathrm{C}$			
Cooling Zone	Cooling by natural convection in air			

Part Numbering



Part Marking



Packaging and Storage

Part Number	Quantity		
SC16-250SW0A	1000Pcs/Bag or 2000Pcs/Box		

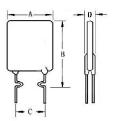




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SC16-250SW0A

Dimensions



Part Number		Lead Material			
Fait Nulliber	A (Max)	B (Max)	С	D (Max)	Tinned Metal (mm)
SC16-250SW0A	10	16	5.1±0.5	3.0	24 AWG/Φ0.5