



Radial Lead Resettable Polymer PTCs

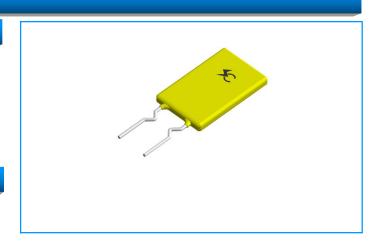
SC16-090SW0A

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 0.90A, Maximum Voltage:16Vdc, Operating Temperature: -40℃ to +85℃



- Computers and peripherals
- ♦ Power ports
- General electronics



Electrical Parameters

Part Number	I _{hold} (A)	I trip (A)	V _{max} (Vdc)	I _{max} (A)	P dtyp (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R_{min} (m Ω)	R_{max} (m Ω)	R1 $_{max}$ (m Ω
SC16-090SW0A	0.90	1.80	16	40	0.60	2.70	10	90	180	270

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.

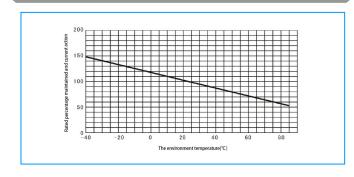
R _{max}= Maximum device resistance at 25 ℃ prior to tripping.

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

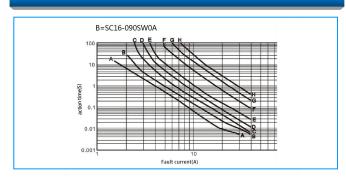
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

	Maximum Ambient Operation Temperature								
Part Number	-40℃	-20 ℃	0℃	25 ℃	40℃	50℃	60℃	70 ℃	85℃
	Hold Current (A)								
SC16-090SW0A	1.31	1.17	1.04	0.90	0.75	0.69	0.61	0.55	0.47

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.





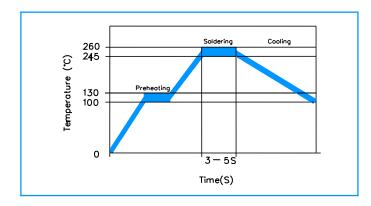
Radial Lead Resettable Polymer PTCs

SC16-090SW0A

Test Procedures and Requirements

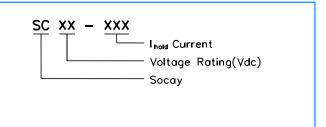
Test Item	Test Conditions	Accept/Reject Criteria		
Resistance	In still air @25℃	R _{min} ≤R≤R _{max}		
Hold Current	60 min, @ I _{hold}	No trip		
Time to Trip	Specified current, V _{max} , @25℃	T≤Maximum Time To Trip		
Frequency Current Withstand	V _{max} / I _{max} ,15 minute	Resistance change rate: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

Soldering Parameters

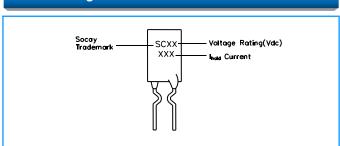


Pre-Heating Zone	Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec				
Soldering Zone	Max. solder temperature should not exceed 260 $^{\circ}\mathrm{C}$				
Cooling Zone	Cooling by natural convection in air				

Part Numbering



Part Marking



Packaging and Storage

Part Number	Quantity		
SC16-090SW0A	1000Pcs/Bag or 2000Pcs/Box		

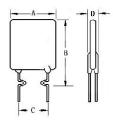




Radial Lead Resettable Polymer PTCs

SC16-090SW0A

Dimensions



Part Number		Lead Material			
Fait Nulliber	A (Max)	B (Max)	С	D (Max)	Tinned Metal (mm)
SC16-090SW0A	6.5	11.5	5.1±0.5	3.0	24 AWG/Ф0.5