



Radial Lead Resettable Polymer PTCs

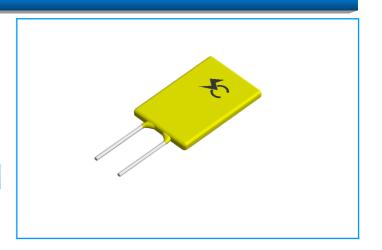
SC16-600SZ0D

Features

- RoHS Compliant and Halogen-Free
- u Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u Operation Current: 6.00A, Maximum Voltage: 16Vdc, Operating Temperature: -40℃ to +85℃



- u USB hubs, ports and peripherals
- u Power ports
- u IEEE1394 ports
- Motor protection
- Automotive application
- Computers and peripherals
- General electronics



Electrical Parameters

	Part Number	I (A)		V _{max}	I _{max}	P _{dtyp} (W)	Maximum Time To Trip		Resistance		
		I _{hold} (A)	I trip (A)	(Vdc)	(A)		Current (A)	Time (S)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
	SC16-600SZ0D	6.00	12.00	16	40	2.80	30.0	5.8	0.010	0.020	0.035

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

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 $^{\circ}$ 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℃	23 ℃	30℃	40 ℃	50 ℃	60 ℃	70 ℃	85 ℃
Percentage Reduction	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

I trip= Trip current: minimum current at which the device will always at 25°C still air.

V $_{\text{max}}$ = 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.

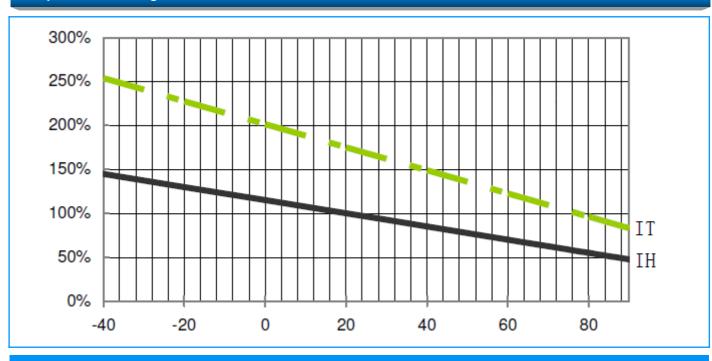




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Temperature Derating Curve

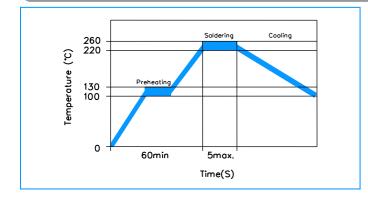


Test Procedures and Requirement

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

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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			

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





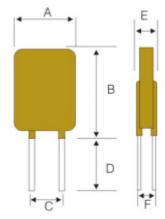
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Physical Specifications

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

Dimensions



Dort Number		Dimensions (mm)					
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)	Tinned Metal (mm)
SC16-600SZ0D	10.7	17.1	5.1	7.6	3.0	1.2	Ф0.80

Packaging Quantity

Part Number	Quantity (pcs/reel)
SC16-600SZ0D	1000