SOCAY

® Pb HF RoHS

Radial Lead Resettable Polymer PTCs

SC30-040CW0D

Features

◆ RoHS Compliant and Halogen-Free
◆ Radial leaded Devices
◆ Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
◆ Operation Current: 0.40A, Maximum Voltage: 30Vdc, Operating Temperature: -40℃ to +85℃

Applications

◆ Computers and peripherals
◆ Power ports
◆ Motor protection
◆ Automotive application
◆ USB hubs, ports and peripherals
◆ General electronics
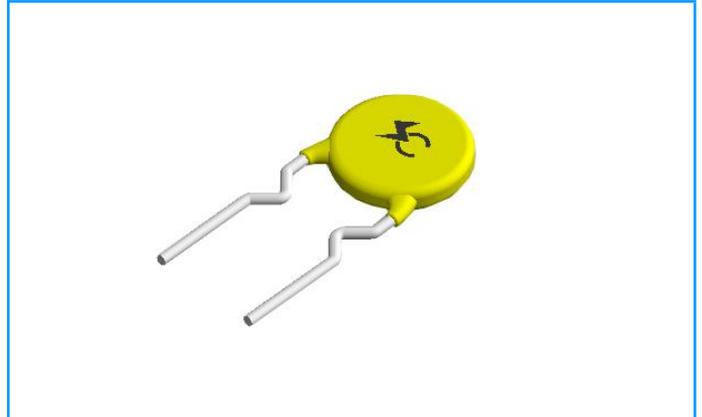
Electrical Parameters

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} (Ω)	R_{max} (Ω)	$R1_{max}$ (Ω)
SC30-040CW0D	0.40	0.80	30	40	0.60	2.00	5.0	0.45	0.75	1.2

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℃	30℃	40℃	50℃	60℃	70℃	85℃
	Percentage Reduction									
SC30-040CW0D	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

SOCAY Electronics Corp., Ltd.

Radial Lead Resettable Polymer PTCs

SC30-040CW0D

Part Numbering

SC XX — XXX

- I$_{hold}$ Current
- Voltage Rating(Vdc)
- Socay

Part Marking

Socay Trademark — SCXX XXX

- Voltage Rating(Vdc)
- I$_{hold}$ Current
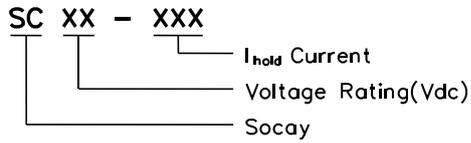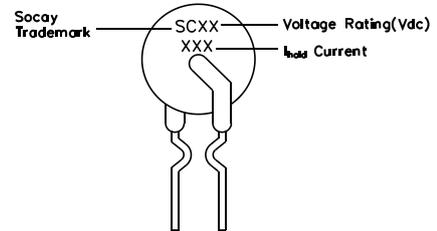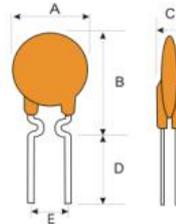
Dimensions

Part Number	Dimensions (mm)					Lead Material
	A (Max)	B (Max)	C (Max)	D (Min)	E(Typ)	Tinned Metal (mm)
SC30-040CW0D	7.9	13.7	3.1	7.6	5.1	24 AWG/Φ0.5

SOCAY Electronics Corp., Ltd.

www.socay.com