

# Radial Lead Resettable Polymer PTCs

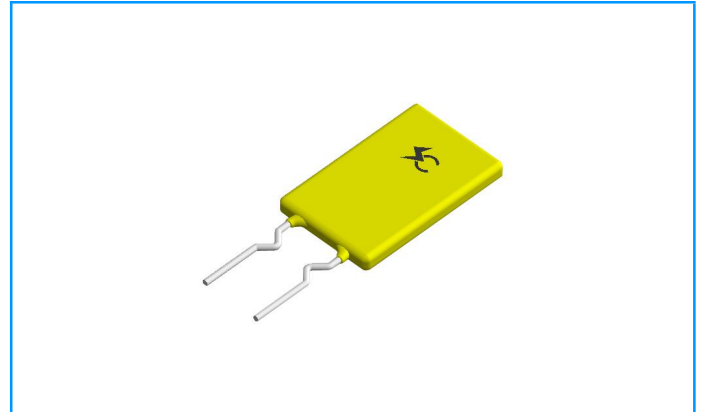
## SC30-135SW0D

### Features

- ◆ RoHS Compliant and Halogen-Free
- ◆ Radial leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- ◆ Operation Current: 1.35A, Maximum Voltage: 30Vdc, Operating Temperature: -40°C to +85°C

### Applications

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



### Electrical Parameters

Part Number	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>dtyp</sub> (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R <sub>min</sub> (mΩ)	R <sub>max</sub> (mΩ)	R1 <sub>max</sub> (mΩ)
SC30-135SW0D	1.35	2.7	30	40	0.8	6.75	7.3	65	115	180

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

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

V<sub>max</sub>= Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>= Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>=Maximum time to trip(s) at assigned current.

P<sub>dtyp</sub>= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R<sub>min</sub>= Minimum device resistance at 25°C prior to tripping.

R<sub>max</sub>= Maximum device resistance at 25°C prior to tripping.

R1<sub>max</sub>= 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<sub>hold</sub> (A)

Part Number	Maximum Ambient Operation Temperature									
	-40°C	-20°C	0°C	23°C	30°C	40°C	50°C	60°C	70°C	85°C
	Percentage Reduction									
SC30-135SW0D	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

