

Radial Lead Resettable Polymer PTCs

SC135-1100SZ0D

Features

- u RoHS Compliant and Halogen-Free
- u Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u Operation Current: 1.10A, Maximum Voltage: 120Vdc, Operating Temperature: -40℃ to +85℃

Applications

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

Electrical Parameters

Part Number			V _{max}	l _{max}	Pdtyp	Maximum Time To Trip		Resistance		
	I _{hold} (A)	I _{trip} (A)	(Vdc)	(A)	(W)	Current (A)	Time (S)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
SC135-1100SZ0D	1.10	2.20	120	20	4.5	5.50	35.0	0.21	0.40	0.60

I $_{\text{hold}}\text{=}$ Hold current: maximum current at which the device will not trip at 25 $^\circ\!\!\mathbb{C}$ still air.

I $_{\text{trip}}\text{=}$ Trip current: minimum current at which the device will always at 25 $^\circ\!\!\mathrm{C}$ 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.

P_{dtyp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R $_{\text{min}}\text{=}$ Minimum device resistance at 25 $^\circ\!\mathrm{C}$ $\,$ prior to tripping.

R $_{\text{max}}$ = Maximum device resistance at 25 $^\circ\!\!\!\mathrm{C}$ 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.

Temperature Rerating Chart - I hold (A)

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

SOCAY Electronics Corp., Ltd.

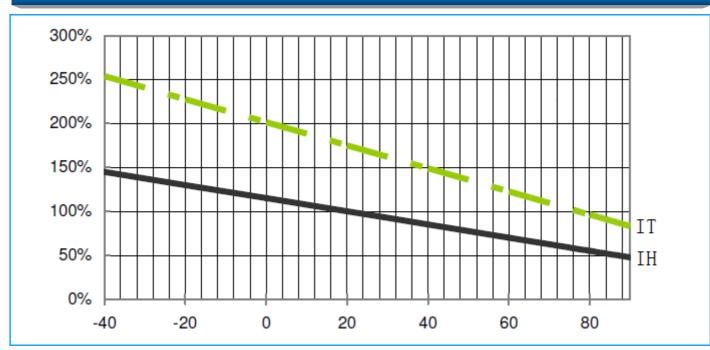


B HF Rohs

Radial Lead Resettable Polymer PTCs

SC135-1100SZ0D

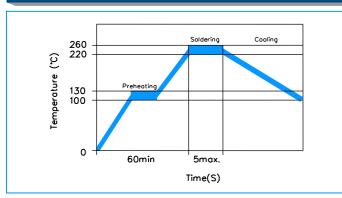
Temperature Derating Curve



Test Procedures and Requirement

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @25±2°C	$R_{min} \leqslant R \leqslant R_{max}$
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

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

SOCAY Electronics Corp., Ltd.

www.socay.com



B HF Rohs

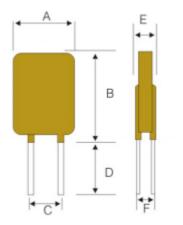
Radial Lead Resettable Polymer PTCs

SC135-1100SZ0D

Dhundar	Charles of a second
Physics	al Specifications
1 11 9 51 6 6	

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



Part Number		Di	Lead Material			
Fart Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	Tinned Metal (mm)
SC135-1100SZ0D	14.7	21.8	5.1	7.6	4.0	Ф0.80

Packaging Quantity					
Part Number	Quantity (pcs/reel)				
SC135-1100SZ0D	500				

SOCAY Electronics Corp., Ltd.	
-------------------------------	--