

### SC250-080CW1A

#### **Description**

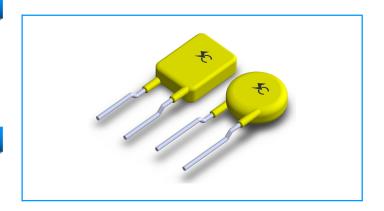
The SC250-080CW1A is designed to protect against short duration high voltage fault currents (power cross or power induction surge) typically found in telecom applications (250Vrms). The series can be used to help telecom networking equipment meet the protection requirements specified in ITU K.20 and K.21.

#### **Features**

- 0.08A hold current range
- 250VAC interrupt rating
- ◆ Fast time-to-trip
- ◆ Binned and shorted narrow resistance ranges available
- RoHS compliant, Lead-Free and Halogen-Free

#### **Applications**

- Customer Premises Equipment (CPE)
- ◆ Central Office (CO) / telecom centers
- Power ports
- ◆ LAN / WAN equipment
- Access equipment



#### **Electrical Parameters**

Part Number	I hold (A)	I trip (A)	V <sub>maxi</sub> (Vac)	I <sub>max</sub> (A)	P <sub>dtyp</sub> . (W)	Maximum Time To Trip		Resistance	
Fait Nulliber						Current (A)	Time (Sec.)	R <sub>min</sub> (Ω)	R <sub>max</sub> (Ω)
SC250-080CW1A	0.08	0.16	250	3.0	0.8	0.35	4.0	20.0	35.0

I  $_{\text{hold}}$ = Hold current: maximum current device will pass without tripping in 25°C still air.

R <sub>min</sub>= Minimum resistance of device in initial (un-soldered) state.

R  $_{\mbox{\scriptsize max}}\mbox{=}$  Maximum resistance of device in initial (un-soldered) state.

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

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

V maxi = Maximum voltage that can be safely placed across a device in its tripped state under specified fault conditions.

I max= Maximum fault current device can withstand without damage at rated voltage (Vmax)

P<sub>dtvp</sub>.= Power dissipated from device when in the tripped state at 25°C still air.



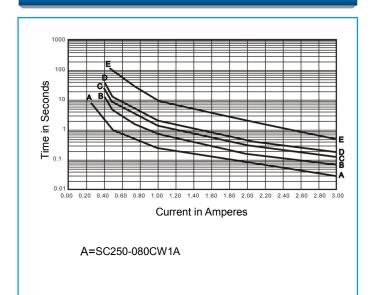


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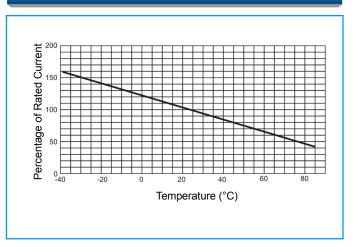
### **Temperature Rerating Chart – I hold (A)**

Part Number	Ambient Operation Temperature										
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C		
	Hold Current (A)										
SC250-080CW1A	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033		

## **Average Time Current Curves**



## **Temperature Rerating Curve**



#### **Test Procedures and Requirement**

Test	Test Conditions	Accept/Reject Criteria				
Resistance	In still air @25±2°C	R <sub>min</sub> ≤R≤R <sub>max</sub>				
Hold Current	60 min, at I <sub>hold</sub> , In still air @25±2°C	No trip				
Time to Trip	Specified current, V <sub>max</sub> , @25±2°C	T≤Maximum Time To Trip				
Frequency Current withstand	220V / I <sub>max,</sub> 20 cycle	Resistance of the variation of the poor value:≤30%				
Failure mode	V <sub>maxi</sub> , 60 minute	No buming				
Withstand current and Voltage	V <sub>max</sub> , I <sub>max</sub> , 15minute	Resistance of the variation of the poor value: ≤30%				

SOCAY Electronics Corp., Ltd.

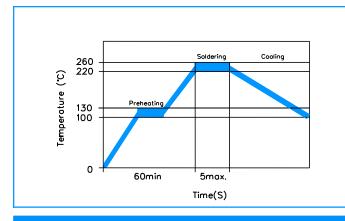
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## SC250-080CW1A

## **Soldering Parameters**

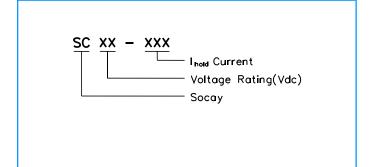


Pre-Heating Zone	Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec					
Soldering Zone	Max. solder temperature should not exceed 260°C					
Cooling Zone	Cooling by natural convection in air					

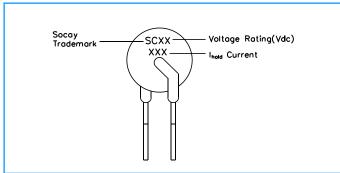
## **Physical Specifications**

Lead Material	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						

#### **Part Numbering**



### **Part Marking**

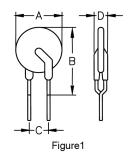






## SC250-080CW1A

#### **Dimensions**



Part Number	Figure	Α		В		С		D		Lead (dia)		
		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	Mm	Packaging (Bulk Pack)
		Max.	Max.	Max.	Max.	Тур.	Тур.	Max.	Max.			
SC250-080CW1A	Figure1	0.236	6.0	0.394	10.0	0.200	5.1	0.181	4.6	0.024	0.6	1000