

## **SEMIFUSE® SFR250P Series PTC Re-settable Fuses**

Our SFR250P series re-settable fuse will provide protection for telephone equipment against lightning or Power Cross Strikes as they are capable of switching 250Vrms. These devices are fully compatible with Telecommunication standards and so would help networking equipment manufacturers pass ITU K20/ 21/45 and Telcordia GR974/1089 requirements.

### **Characteristics**

### **Agency Approvals; UL, CSA and TÜV**

Part #	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vrms)	I <sub>max</sub> (A)	P <sub>d</sub> <sup>max</sup> (W)	Maximum Time to Trip@23°C		Resistance @ 23°C			Dimensions (mm)			
						Current (A)	Time (Sec.)	R <sub>min</sub> (Ω)	R <sub>max</sub> (Ω)	R <sub>1max</sub> (Ω)	A (Max)	B (Max)	C Typ.	Figure
SFR250P080CFT	0.08	0.16	250	3	1	0.35	3.0	15	22	33	5.8	10.9	5.5	1
SFR250P080CF	0.08	0.16	250	3	1	0.35	3.0	14	22	33	5.8	10.9	5.5	1
SFR250P110CF	0.11	0.22	250	3	1	1	0.75	5	9	16	5.3	9.4	3.8	1
SFR250P120CF	0.12	0.24	250	3	1	1	1.5	4	8	16	6.8	12.5	5.5	2
SFR250P120CF-RA	0.12	0.24	250	3	1	1	1	7	9	16	6.8	12.5	5.5	2
SFR250P120CF-RC	0.12	0.24	250	3	1	1	0.85	5.4	7.5	14	6.8	12.5	5.5	2
SFR250P120CF-RF	0.12	0.24	250	3	1	1	0.7	6	10.5	16	6.8	12.5	5.5	2
SFR250P120CF-R1	0.12	0.24	250	3	1	1	0.8	6	9	16	6.8	12.5	5.5	2
SFR250P120CF-R2	0.12	0.24	250	3	1	1	0.7	8	10.5	16	6.8	12.5	5.5	2
SFR250P120CF-R3	0.12	0.24	250	3	1	1	1	8	10	16	6.8	12.5	5.5	2
SFR250P120CFT	0.12	0.24	250	3	1	1	1.2	7	12	16	6.8	12.5	5.5	2
SFR250P145CF	0.145	0.29	250	3	1	1	2.5	3	6	14	6.8	12.5	5.5	2
SFR250P145CF-RA	0.145	0.29	250	3	1	1	5	3	5.5	12	6.8	10.0	5.5	2
SFR250P145CF-RB	0.145	0.29	250	3	1	1	2.5	4.5	6	14	6.8	12.5	5.5	2
SFR250P145CFT	0.145	0.29	250	3	1	1	2.0	5.4	7.5	14	6.8	12.5	5.5	2
SFR250P180CF	0.18	0.65	250	10	1.80	1	21	0.8	2.2	4	12.5	12.9	5.5	2
SFR250P180CFT	0.18	0.65	250	10	1.80	1	20	1.4	3.9	4.5	11	14	5.5	1

### **Definitions**

- I<sub>hold</sub> = Hold Current, maximum current device will pass without tripping in 23°C still air.
- I<sub>trip</sub> = Trip Current, minimum current at which the device will trip in 23°C still air.
- V<sub>max</sub> = Maximum Voltage device can withstand without damage at rated current (I<sub>max</sub>)
- I<sub>max</sub> = Maximum fault current device can withstand without damage at rated voltage (V<sub>max</sub>)

### **Thermal derating curve**

### **Configuration** - For dimensions A,B & C please refer to the above table

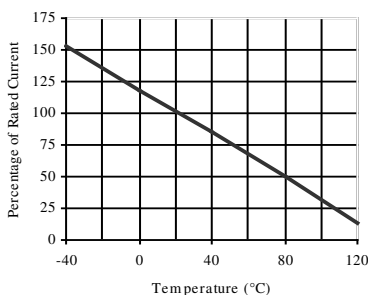


Figure 1

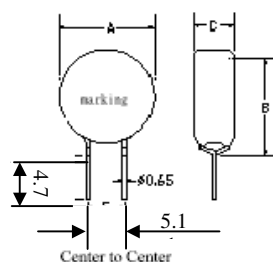
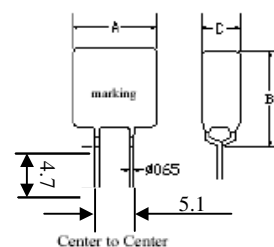


Figure 2



**CAUTION:** Operation beyond the specified maximum ratings may result in device damage and cause possible arcing and flame.