

## **SEMIFUSE® SFR16F Automotive PTC Fuses**

Our SFR16F series PTC fuses provide short-circuit protection in automotive electronic circuits for short circuit currents up to 100A. Once tripped the device remains latched in a high resistance state until the fault is removed.

### **Characteristics**

**Agency Approvals; UL, C-UL, TuV**

Part #	I <sub>h</sub> (A)	I <sub>t</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>d</sub> <sup>max</sup> (W)	Maximum Time to Trip @ 5 x I <sub>h</sub>		Resistance @ 23°C		Dimensions (mm)		
						Current (A)	Time (s)	R <sub>min</sub> (Ω)	R <sub>1m</sub> (Ω)	A (Max)	B (Max)	C (Typ)
SFR16F0250GF	2.50	4.7	16	100	1.0	12.5	5.0	0.022	0.053	8.9	12.8	5.1
SFR16F0300GF	3.00	5.1	16	100	2.3	15.0	2.0	0.034	0.105	7.1	11.0	5.1
SFR16F0400GF	4.00	6.8	16	100	2.4	20.0	3.5	0.020	0.063	8.9	12.8	5.1
SFR16F0500GF	5.00	8.5	16	100	2.6	25.0	3.6	0.014	0.044	10.4	14.3	5.1
SFR16F0600GF	6.00	10.2	16	100	2.8	30.0	5.8	0.009	0.033	10.7	17.1	5.1
SFR16F0700GF	7.00	11.9	16	100	3.0	35.0	8.0	0.006	0.021	11.2	19.7	5.1
SFR16F0800GF	8.00	13.6	16	100	3.0	40.0	9.0	0.005	0.018	12.7	20.9	5.1
SFR16F0900GF	9.00	15.3	16	100	3.3	45.0	12.0	0.004	0.015	14.0	21.7	5.1
SFR16F1000GF	10.0	17.0	16	100	3.3	50.0	12.5	0.003	0.012	16.5	24.1	5.1
SFR16F1100GF	11.0	18.7	16	100	3.7	55.0	13.5	0.003	0.010	17.5	26.0	5.1
SFR16F1200GF	12.0	20.4	16	100	4.2	60.0	16.0	0.002	0.009	17.5	28.0	10.2
SFR16F1400GF	14.0	23.8	16	100	4.6	70.0	20.0	0.002	0.008	27.9	27.9	10.2

### **Definitions**

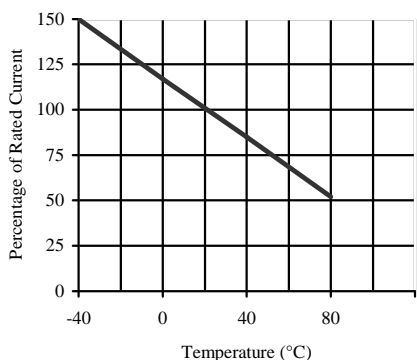
I<sub>h</sub> = Hold Current, maximum current the fuse will pass without tripping in still air at 23°C.

I<sub>t</sub> = Trip Current, minimum current at which the fuse will trip in still air at 23°C.

V<sub>max</sub> = Maximum voltage fuse can withstand without damage at rated current (I<sub>max</sub>)

I<sub>max</sub> = Maximum fault current fuse can withstand without damage at rated voltage (V<sub>max</sub>)

### **Thermal Derating Curve**



### **Configuration**

