



# SEMIFUSE<sup>®</sup> SFR16F Series 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.

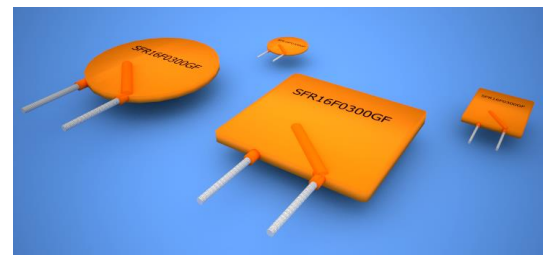
## Characteristics

Agency Approvals; UL,C-UL and TÜV

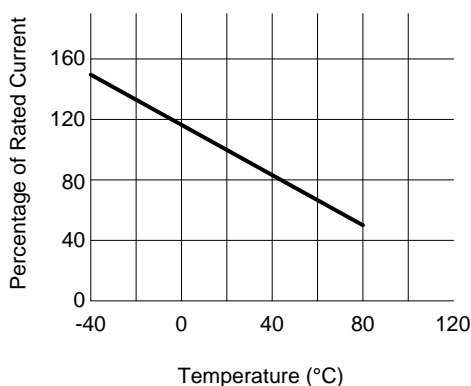
Part Number	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>d</sub> <sup>max</sup> (W)	Max Time to Trip @ 23°C 5 x I <sub>h</sub>		Resistance @ 23°C		Maximum Dimension (mm)		
						Current (A)	Time (Sec.)	R <sub>min</sub> (Ω)	R <sub>1max</sub> (Ω)	A	B	C
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

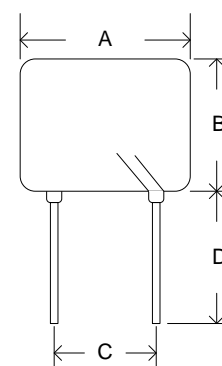
- I<sub>hold</sub> = Hold current, maximum current PTC will pass without tripping in 23°C still air.
- I<sub>trip</sub> = Trip current, minimum current at which the PTC will trip in still air at 23°C.
- V<sub>max</sub> = Maximum voltage PTC can withstand without damage at rated current (I<sub>max</sub>)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



## Thermal De-Rating Curve



## Configuration



Dimensions – see above table

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