sales@atcsemitec.co.uk
Tel: +44(0)1606 871680 Fax: +44(0)1606 872938

ATC Semitec Ltd
Unit 14 Cosgrove Business Park
Daisy Bank Lane, Anderton
NORTHWICH
Cheshire
CW9 6FY
U.K

SEMIFUSE® SFR60F Series PTC Fuses

Our SFR60F series PTC re-settable fuses provide re-settable short-circuit protection in low-voltage DC circuits up to 60V for short circuit currents up to 40A. 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_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d^{max} (W)	Max Time to Trip @ 23°C 5 x Ih		Resistance @ 23°C		Maximum Dimension (mm)		
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)	A	B	C
SFR60F005F	0.05	0.10	60	40	0.26	0.25	5.00	7.30	20.0	7.4	12.7	5.1
SFR60F010F	0.10	0.20	60	40	0.38	0.50	4.00	2.50	7.50	7.4	12.7	5.1
SFR60F017F	0.17	0.34	60	40	0.48	0.85	3.00	2.20	8.00	7.4	12.7	5.1
SFR60F020F	0.20	0.40	60	40	0.41	1.00	2.20	1.83	4.40	7.4	12.7	5.1
SFR60F025F	0.25	0.50	60	40	0.45	1.25	2.50	1.25	3.00	7.4	12.7	5.1
SFR60F030F	0.30	0.60	60	40	0.49	1.50	3.00	0.88	2.10	7.4	13.0	5.1
SFR60F040F	0.40	0.80	60	40	0.56	2.00	3.80	0.55	1.29	7.6	13.5	5.1
SFR60F050F	0.50	1.00	60	40	0.77	2.50	4.00	0.50	1.17	7.9	13.7	5.1
SFR60F065F	0.65	1.30	60	40	0.88	3.25	5.30	0.31	0.72	9.7	14.5	5.1
SFR60F075F	0.75	1.50	60	40	0.92	3.75	6.30	0.25	0.60	10.4	15.2	5.1
SFR60F090F	0.90	1.80	60	40	0.99	4.50	7.20	0.20	0.47	11.7	15.8	5.1
SFR60F110F	1.10	2.20	60	40	1.50	5.50	8.20	0.15	0.38	13.0	18.0	5.1
SFR60F135F	1.35	2.70	60	40	1.70	6.75	9.60	0.12	0.30	14.5	19.6	5.1
SFR60F160F	1.60	3.20	60	40	1.90	8.00	11.40	0.09	0.22	16.3	21.3	5.1
SFR60F185F	1.85	3.70	60	40	2.10	9.25	12.60	0.08	0.19	17.8	22.9	5.1
SFR60F250F	2.50	5.00	60	40	2.50	12.50	15.60	0.05	0.13	21.3	26.4	10.2
SFR60F300F	3.00	6.00	60	40	2.80	15.00	19.80	0.04	0.10	24.9	30.0	10.2
SFR60F375F	3.75	7.50	60	40	3.20	18.75	24.00	0.03	0.08	28.5	33.5	10.2

Definitions

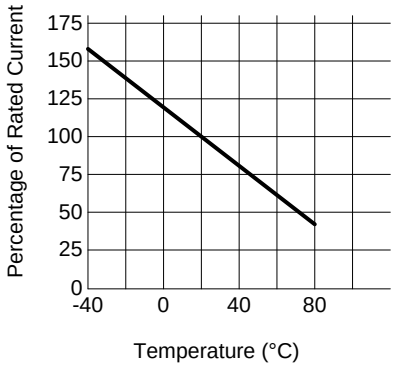
I_{hold} = Hold current, maximum current PTC will pass without tripping in 23°C still air.

I_{trip} = Trip current, minimum current at which the PTC will trip in still air at 23°C.

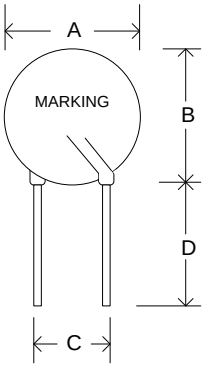
V_{max} = Maximum voltage PTC can withstand without damage at rated current (I_{max})

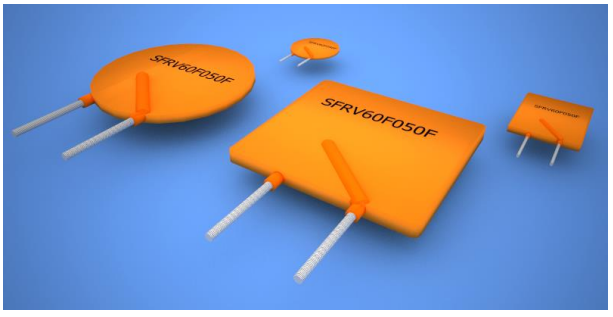
I_{max} = Maximum fault current PTC can withstand without damage at rated voltage (V_{max})

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.