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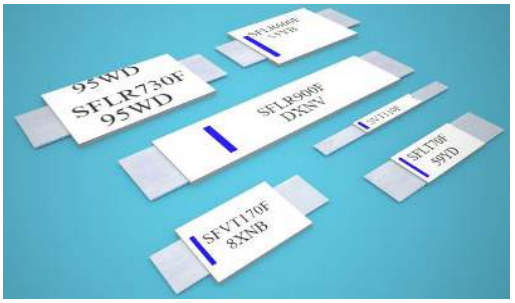
SEMIFUSE® SFSR Series PTC Fuses

The SFSR series re-settable PTC fuse will provide non-cycling protection against short circuits in rechargeable batteries and electronic circuits. Once tripped, the device remains latched in a high resistance state until the fault is removed. Hold currents from 1.2A to 4.2A.

Characteristics

Agency Approvals; UL,C-UL and TÜV

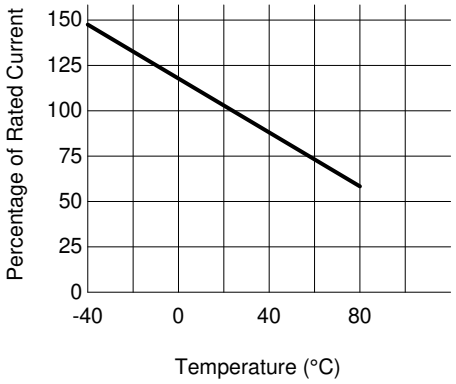
Part Number	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d^{max} (W)	Maximum Time to Trip @ 23°C		Resistance @ 23°C		Maximum Dimension (mm)	
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)	A	B
SFSR120F	1.20	2.7	15	100	1.2	6.00	5.0	0.085	0.220	22.1	5.20
SFSR175F	1.75	3.8	15	100	1.5	8.75	5.0	0.050	0.120	23.1	5.20
SFSR200F	2.00	4.4	30	100	1.9	10.0	4.0	0.030	0.100	23.4	11.0
SFSR350F	3.50	6.3	30	100	2.5	20.0	3.0	0.017	0.050	31.8	13.5
SFSR420F	4.20	7.6	30	100	2.9	20.0	6.0	0.012	0.040	32.4	13.6



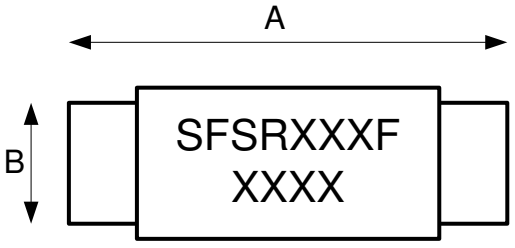
Definitions

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.