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SEMIFUSE® SFR30P Series PTC Re-settable Fuses

Our SFR30P series re-settable fuse will provide non-cycling protection against short circuits in electronic equipment upto 30V. Once tripped the device remains latched in a high resistance state until the fault is removed.

Characteristics

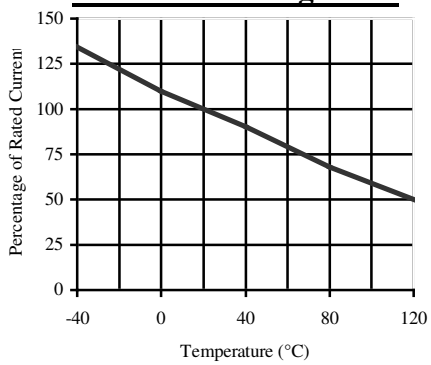
Agency Approvals; UL, CSA and TüV

Part #	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	P_d^{max} (W)	Maximum Time to Trip @ 20°C		Resistance @ 20°C		Maximum Dimension (mm)		
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)	A (max.)	B (max.)	C (typ.)
SFR30P090F	0.90	1.80	30	40	0.6	4.50	5.9	0.070	0.22	7.4	12.2	5.1
SFR30P110F	1.10	2.20	30	40	0.7	5.50	6.6	0.050	0.17	7.4	14.2	5.1
SFR30P135F	1.35	2.70	30	40	0.8	6.75	7.3	0.040	0.13	8.9	13.5	5.1
SFR30P160F	1.60	3.20	30	40	0.9	8.00	8.0	0.030	0.11	8.9	15.2	5.1
SFR30P185F	1.85	3.70	30	40	1.0	9.25	8.7	0.030	0.09	10.2	15.7	5.1
SFR30P250F	2.50	5.00	30	40	1.2	12.5	10.3	0.020	0.07	11.4	18.3	5.1
SFR30P300F	3.00	6.00	30	40	2.0	15.0	10.8	0.020	0.08	11.4	17.3	5.1
SFR30P400F	4.00	8.00	30	40	2.5	20.0	12.7	0.010	0.05	14.0	20.1	5.1
SFR30P500F	5.00	10.00	30	40	3.0	25.0	14.5	0.010	0.05	14.0	24.9	10.2
SFR30P600F	6.00	12.00	30	40	3.5	30.0	16.0	0.005	0.04	16.5	24.9	10.2
SFR30P700F	7.00	14.00	30	40	3.8	35.0	17.5	0.005	0.03	19.1	26.7	10.2
SFR30P800F	8.00	16.00	30	40	4.0	40.0	18.8	0.005	0.02	21.6	29.2	10.2
SFR30P900F	9.00	18.00	30	40	4.2	40.0	20.0	0.005	0.02	24.1	29.7	10.2

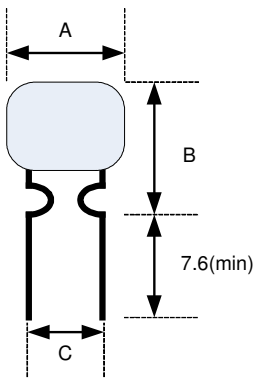
Definitions

I_{hold} = Hold Current, maximum current device will pass without tripping in 20°C still air.
I_{trip} = Trip Current, minimum current at which the device will trip in 20°C still air.
V_{max} = Maximum Voltage device can withstand without damage at rated current (I_{max})
I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max})

Thermal derating curve



Configuration



Dimensions – see above table

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