

SEMIFUSE® SFS1812P PTC Fuses

The SFS1812P series of PTC fuses gives a surface mount solution for motherboard, computer peripheral and other electronic applications. The 1812 footprint can handle continuous currents up to 3A and voltages up to 60V.

Characteristics

Agency Approvals; UL, CSA & TÜV

Part Number	I_{hold} (A)	I_{trip} (A)	V_{max} (dc)	I_{max} (A)	P_{max} (W)	Maximum time to trip @ 20°C		Resistance @ 20°C		Maximum Dimension (mm)	
						Current (A)	Time (s)	R_{min} (Ω)	R_{1max} (Ω)	A	B
SFS1812P010TF	0.10	0.30	30	100	0.8	0.50	1.50	1.600	15.00	4.73	3.41
SFS1812P014TF	0.14	0.34	60	10	0.8	1.50	0.15	1.500	6.000	4.73	3.41
SFS1812P020TF	0.20	0.40	30	100	0.8	8.0	0.02	0.800	5.000	4.73	3.41
SFS1812P050TF	0.50	1.00	15	100	0.8	8.0	0.15	0.150	1.000	4.73	3.41
SFS1812P075TF	0.75	1.50	13.2	100	0.8	8.0	0.20	0.110	0.450	4.73	3.41
SFS1812P075TF/24	0.75	1.50	24	100	0.8	8.0	0.20	0.110	0.290	4.73	3.41
SFS1812P110TF	1.10	2.20	8	100	0.8	8.0	0.30	0.040	0.210	4.73	3.41
SFS1812P125TF	1.25	2.50	16	100	0.8	8.0	0.40	0.050	0.140	4.73	3.41
SFS1812P150TF	1.50	3.00	8	100	0.8	8.0	0.30	0.040	0.110	4.73	3.41
SFS1812P200TF	2.00	3.50	8	100	0.8	8.0	2.00	0.020	0.070	4.73	3.41
SFS1812P260TF	2.60	5.00	8	100	0.8	8.0	2.50	0.015	0.047	4.73	3.41
SFS1812P300TF	3.00	5.00	6	100	0.8	8.0	4.00	0.012	0.040	4.73	3.41

Definitions

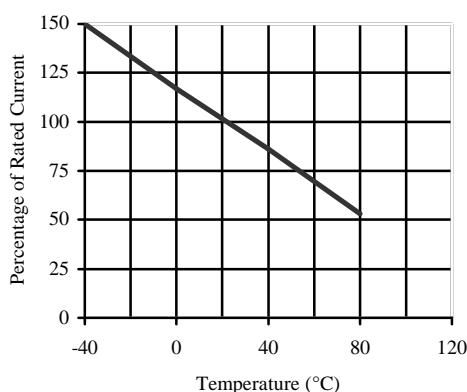
I_{hold} = Hold current - maximum current PTC will pass without tripping in 20°C still air

I_{trip} = Trip current - minimum current at which the PTC will trip in 20°C still air

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

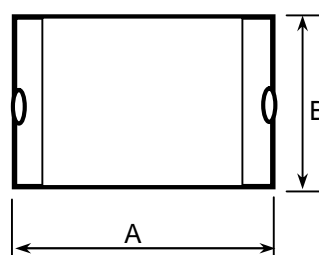
I_{max} = Maximum fault current PTC can withstand without damage at rated voltage (V_{max})

Thermal de-rating curve



Configuration

SFS1812P Dimensions



Solder Pad Layout

