



SEMIFUSE[®] SFS0603F PTC Fuses

The SFS0603F series PTC fuse is the smallest in our SMD range. It offers a surface mount solution for motherboard, computer peripheral and various electronic applications. The 0603 footprint can handle continuous currents up to 0.2A and voltages to 60V.

Characteristics

Agency Approvals; UL, CSA and TÜV

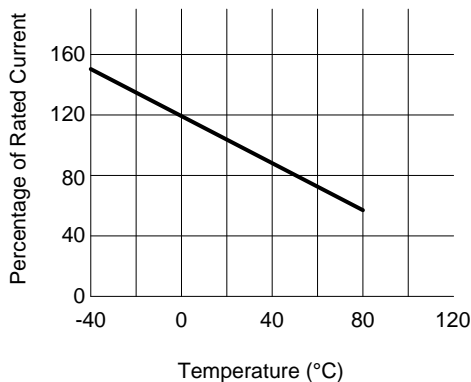
Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _d ^{max} (W)	Maximum Time to Trip @ 23°C		Resistance @ 23°C		Maximum Dimension (mm)	
						Current (A)	Time (Sec.)	R _{min} (Ω)	R _{1max} (Ω)	A	B
SFS0603F001TF	0.01	0.03	60	40	0.5	0.20	1.00	15.0	100	1.80	1.00
SFS0603F002TF	0.02	0.06	60	40	0.5	0.20	1.00	12.0	70.0	1.80	1.00
SFS0603F003TF	0.03	0.09	30	40	0.5	0.20	1.00	6.00	50.0	1.80	1.00
SFS0603F004TF	0.04	0.12	24	40	0.5	0.20	1.00	4.00	40.0	1.80	1.00
SFS0603F005TF	0.05	0.15	15	40	0.5	0.50	0.01	3.80	30.0	1.80	1.00
SFS0603F010TF	0.10	0.25	15	40	0.5	0.70	0.01	0.90	8.00	1.80	1.00
SFS0603F012TF	0.12	0.30	9	40	0.5	0.80	0.01	1.10	5.80	1.80	1.00
SFS0603F016TF	0.16	0.40	9	40	0.5	1.00	0.01	1.00	4.20	1.80	1.00
SFS0603F020TF	0.20	0.45	9	40	0.5	2.00	0.01	0.55	3.50	1.80	1.00

Definitions

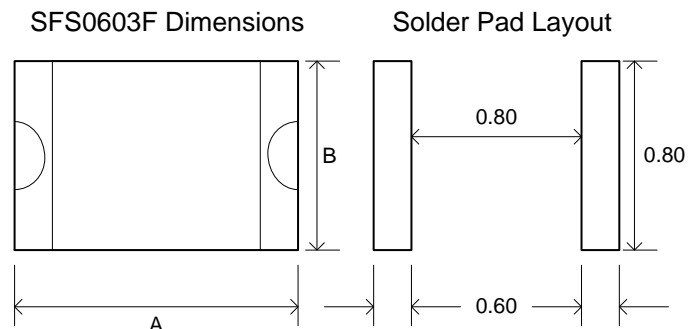
- I_{hold} = Hold current, maximum current PTC will pass without tripping in 23°C still air.
- I_{trip} = Trip current - minimum current at which the PTC will trip in still air at 23°C.
- V_{max} = Maximum voltage PTC can withstand without damage at rated current (I_{max})
- I_{max} = Maximum fault current PTC can withstand without damage at rated voltage (V_{max})



Thermal De-Rating Curve



Configuration



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