

SEMIFUSE® SFS0805P PTC Fuses

The SFS0805P series of PTC fuses is our smallest in our SMD range. It offers a surface mount solution for motherboard, computer peripheral and other electronic applications. The 0805 footprint can handle currents up to 1A and voltages up to 15V.

Characteristics

Approvals; UL, CSA & TÜV

| Part Number | I_{hold} (A) | I_{trip} (A) | V_{max} (dc) | I_{max} (A) | P_d^{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 |
| SFS0805P010TF | 0.10 | 0.30 | 15 | 100 | 0.50 | 0.50 | 1.50 | 1.000 | 6.000 | 2.20 | 1.50 |
| SFS0805P020TF | 0.20 | 0.50 | 9 | 100 | 0.50 | 8.00 | 0.02 | 0.650 | 3.500 | 2.20 | 1.50 |
| SFS0805P035TF | 0.35 | 0.75 | 6 | 100 | 0.50 | 8.00 | 0.10 | 0.250 | 1.200 | 2.20 | 1.50 |
| SFS0805P050TF | 0.50 | 1.00 | 6 | 100 | 0.50 | 8.00 | 0.10 | 0.150 | 0.850 | 2.20 | 1.50 |
| SFS0805P075TF | 0.75 | 1.50 | 6 | 40 | 0.60 | 8.00 | 0.20 | 0.090 | 0.350 | 2.20 | 1.50 |
| SFS0805P100TF | 1.00 | 1.95 | 6 | 40 | 0.60 | 8.00 | 0.30 | 0.060 | 0.210 | 2.20 | 1.50 |

Definitions

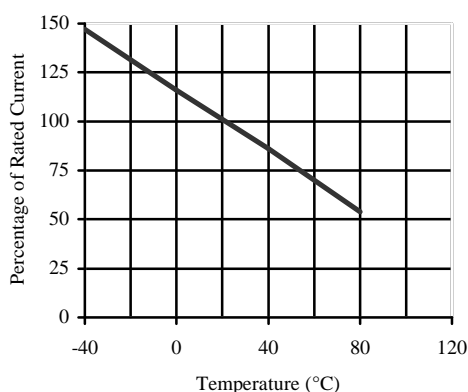
I_{hold} = Hold current - maximum current PTC will pass without tripping in 20°C still air

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})

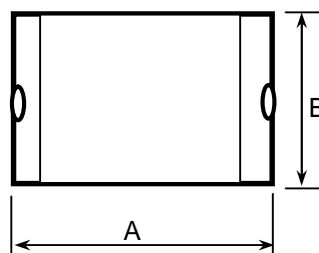
I_{max} = Maximum fault current PTC can withstand without damage at rated voltage (V_{max})

Thermal de-rating curve



Configuration

SFS0805P Dimensions



Solder Pad Layout

