

Surface-Mount Devices | 1206 Size

SRF1206 Series

PTC Resettable Fuses

Features

- Compact design saves board space
- Fast response to fault currents
- Compatible with high temperature solders
- Low resistance
- Low-profile
- RoHS compliant, lead-free and halogen-free



Applications

- Computer
- Portable electronics
- Multimedia
- Game machines
- Telephony and broadband
- Mobile phones
- Automotive
- Industrial controls

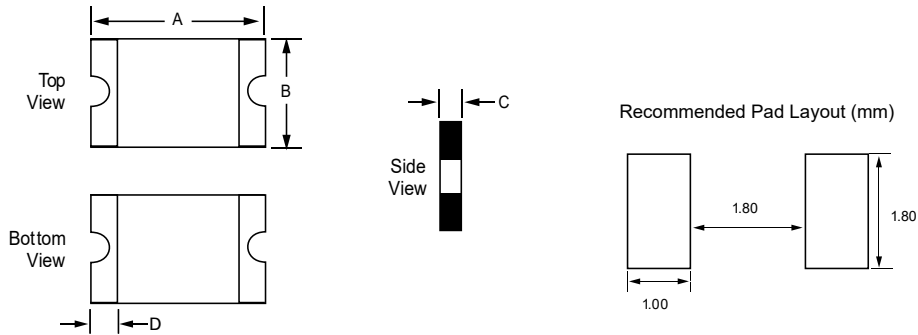


Electrical Characteristics

| Part Number | I_H (A) | I_T (A) | V_{max} (V) | I_{max} (A) | Time to Trip | | $P_{d_{typ}}$ (W) | R_{min} (Ω) | $R_{1_{max}}$ (Ω) |
|-------------|--------------|--------------|------------------|------------------|--------------|--------|----------------------|---------------------------|-------------------------------|
| | | | | | (A) | (Sec.) | | | |
| SRF1206P005 | 0.05 | 0.15 | 30 | 10 | 0.25 | 1.50 | 0.40 | 2.500 | 40.00 |
| SRF1206P010 | 0.10 | 0.25 | 30 | 10 | 0.50 | 1.20 | 0.40 | 1.400 | 15.00 |
| SRF1206P012 | 0.12 | 0.29 | 30 | 10 | 8.00 | 0.10 | 0.40 | 1.350 | 8.500 |
| SRF1206P020 | 0.20 | 0.46 | 24 | 10 | 8.00 | 0.10 | 0.60 | 0.600 | 2.600 |
| SRF1206P025 | 0.25 | 0.55 | 16 | 10 | 1.25 | 0.10 | 0.60 | 0.400 | 1.800 |
| SRF1206P035 | 0.35 | 0.75 | 6 | 40 | 8.00 | 0.10 | 0.60 | 0.300 | 1.200 |
| SRF1206P050 | 0.50 | 1.00 | 13.2 | 40 | 8.00 | 0.10 | 0.40 | 0.150 | 0.700 |
| SRF1206P075 | 0.75 | 1.50 | 6 | 100 | 8.00 | 0.10 | 0.40 | 0.100 | 0.400 |
| SRF1206P100 | 1.00 | 2.00 | 6 | 100 | 8.00 | 0.10 | 0.60 | 0.070 | 0.280 |
| SRF1206P110 | 1.10 | 2.20 | 6 | 100 | 8.00 | 0.10 | 0.60 | 0.060 | 0.200 |
| SRF1206P150 | 1.50 | 3.00 | 6 | 100 | 8.00 | 0.30 | 0.60 | 0.030 | 0.130 |
| SRF1206P200 | 2.00 | 4.00 | 6 | 100 | 8.00 | 1.00 | 0.70 | 0.020 | 0.085 |

I_{hold} = Hold current: maximum current device will pass without tripping in 25°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 25°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})
 P_d = Power dissipated from device when in the tripped state at 25°C still air.
 R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R_{typ} = Typical resistance of device in initial (un-soldered) state.
 R_{1max} = Maximum resistance of device at 25°C measured one hour after tripping or re_flow soldering of 260°C for 20 sec.

Dimensions

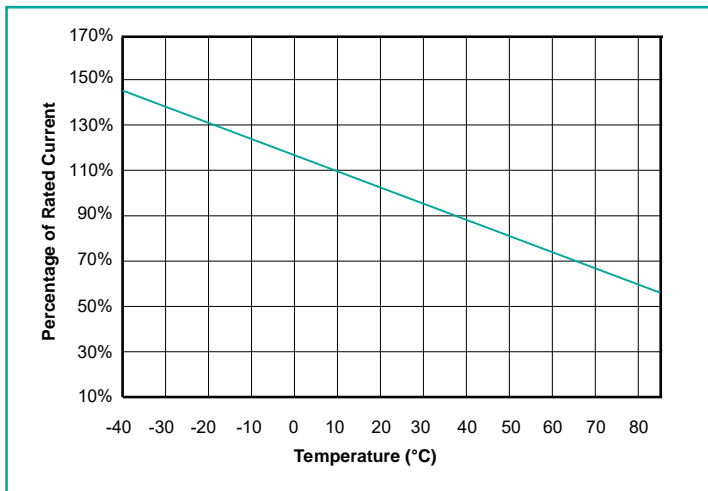


| Part Number | Marking | A | | B | | C | | D |
|-------------|---------|------|------|------|------|------|------|------|
| | | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| SRF1206P005 | T0 | 3.00 | 3.40 | 1.40 | 1.80 | 0.80 | 1.20 | 0.25 |
| SRF1206P010 | T1 | 3.00 | 3.40 | 1.40 | 1.80 | 0.80 | 1.20 | 0.25 |
| SRF1206P012 | T01 | 3.00 | 3.40 | 1.40 | 1.80 | 0.80 | 1.20 | 0.25 |
| SRF1206P020 | T02 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P025 | T03 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P035 | T04 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P050 | T05 | 3.00 | 3.40 | 1.40 | 1.80 | 0.55 | 0.75 | 0.25 |
| SRF1206P075 | T07 | 3.00 | 3.40 | 1.40 | 1.80 | 0.45 | 0.85 | 0.25 |
| SRF1206P100 | T10 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P110 | T10 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P150 | T15 | 3.00 | 3.40 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |
| SRF1206P200 | T20 | 3.00 | 3.50 | 1.40 | 1.80 | 0.60 | 1.00 | 0.25 |

Thermal Derating Chart Hold Current (A)

| Part Number | Ambient Operating Temperature | | | | | | | | |
|-------------|-------------------------------|-------|------|------|------|------|------|------|------|
| | -40°C | -20°C | 0°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| SRF1206P005 | 0.08 | 0.07 | 0.06 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 |
| SRF1206P010 | 0.16 | 0.14 | 0.13 | 0.10 | 0.09 | 0.08 | 0.75 | 0.07 | 0.06 |
| SRF1206P012 | 0.19 | 0.17 | 0.15 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 |
| SRF1206P020 | 0.30 | 0.27 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 0.12 | 0.11 |
| SRF1206P025 | 0.38 | 0.34 | 0.30 | 0.25 | 0.23 | 0.20 | 0.18 | 0.15 | 0.14 |
| SRF1206P035 | 0.51 | 0.46 | 0.40 | 0.35 | 0.30 | 0.27 | 0.24 | 0.22 | 0.18 |
| SRF1206P050 | 0.76 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.35 | 0.32 | 0.26 |
| SRF1206P075 | 1.11 | 1.00 | 0.85 | 0.75 | 0.67 | 0.61 | 0.52 | 0.50 | 0.42 |
| SRF1206P100 | 1.60 | 1.40 | 1.30 | 1.00 | 0.90 | 0.80 | 0.75 | 0.70 | 0.60 |
| SRF1206P110 | 1.64 | 1.46 | 1.30 | 1.10 | 0.92 | 0.83 | 0.80 | 0.65 | 0.52 |
| SRF1206P150 | 2.20 | 1.99 | 1.77 | 1.50 | 1.34 | 1.23 | 1.10 | 1.01 | 0.84 |
| SRF1206P200 | 2.88 | 2.61 | 2.28 | 2.00 | 1.80 | 1.66 | 1.51 | 1.39 | 1.19 |

Temperature Derating Curve



Packaging Options

| I _{hold} (A) | Quantity |
|-----------------------|----------|
| 0.05~0.12, 1~2 | 3,500pcs |
| 0.2~0.75 | 4,000pcs |

Reel packaging per EIA-481-1 standard

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