

Surface-Mount Devices | 2920 Size

SRF2920 Series

PTC Resettable Fuses

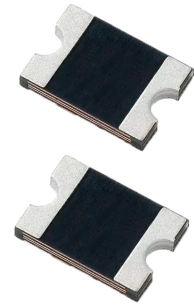
Features

- 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) | $R1_{max}$ (Ω) |
|----------------|--------------|--------------|------------------|------------------|--------------|--------|--------------------|---------------------------|----------------------------|
| | | | | | (A) | (Sec.) | | | |
| SRF2920P030 | 0.30 | 0.60 | 60 | 10 | 1.5 | 3.0 | 1.5 | 0.600 | 4.300 |
| SRF2920P050 | 0.50 | 1.00 | 60 | 10 | 2.5 | 3.0 | 1.5 | 0.180 | 1.400 |
| SRF2920P075 | 0.75 | 1.50 | 33 | 40 | 8.0 | 0.3 | 1.5 | 0.100 | 1.000 |
| SRF2920P100 | 1.00 | 2.00 | 33 | 40 | 8.0 | 0.5 | 1.5 | 0.065 | 0.410 |
| SRF2920P125 | 1.25 | 2.50 | 33 | 40 | 8.0 | 2.0 | 1.5 | 0.050 | 0.250 |
| SRF2920P150 | 1.50 | 3.00 | 33 | 40 | 8.0 | 2.0 | 1.5 | 0.035 | 0.230 |
| SRF2920P185 | 1.85 | 3.70 | 33 | 100 | 8.0 | 2.0 | 1.5 | 0.030 | 0.150 |
| SRF2920P200 | 2.00 | 4.00 | 16 | 40 | 8.0 | 4.5 | 1.5 | 0.020 | 0.120 |
| SRF2920P200/24 | 2.00 | 4.00 | 24 | 40 | 8.0 | 4.5 | 1.5 | 0.020 | 0.120 |
| SRF2920P250 | 2.50 | 5.00 | 16 | 40 | 8.0 | 16.0 | 1.5 | 0.018 | 0.085 |
| SRF2920P260 | 2.60 | 5.20 | 16 | 40 | 8.0 | 20.0 | 1.5 | 0.014 | 0.075 |
| SRF2920P260/24 | 2.60 | 5.20 | 24 | 100 | 8.0 | 18.0 | 1.5 | 0.014 | 0.075 |
| SRF2920P300 | 3.00 | 6.00 | 12 | 40 | 8.0 | 25.0 | 1.5 | 0.010 | 0.055 |
| SRF2920P300/24 | 3.00 | 6.00 | 24 | 100 | 8.0 | 20.0 | 1.5 | 0.010 | 0.055 |
| SRF2920P450 | 4.50 | 9.00 | 16 | 40 | 22.5 | 5.0 | 1.5 | 0.005 | 0.020 |

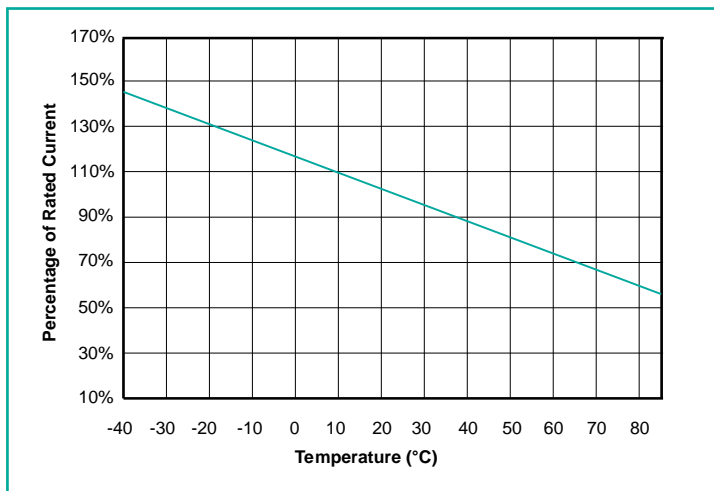
I_{hold} = Hold current: maximum current device will pass without tripping in 25°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 25°C still air.
 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})
 I_{max} = Maximum fault current 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.
 $R1_{max}$ = Maximum resistance of device at 25°C measured one hour after tripping or reflow soldering of 260°C for 20 sec.

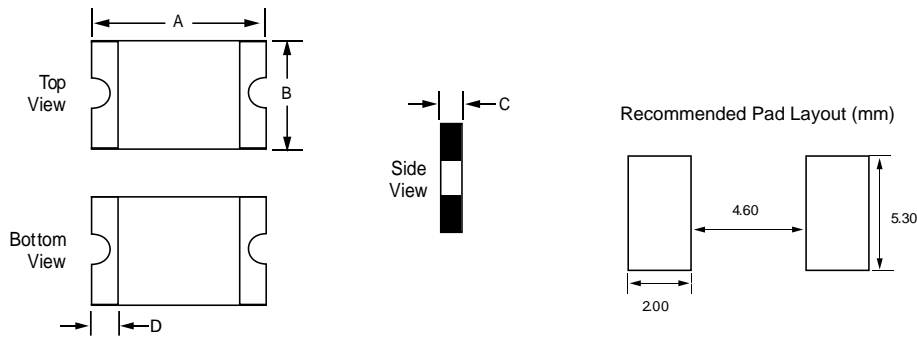
Thermal Derating Chart Hold Current (A)

| Part Number | Ambient Operating Temperature | | | | | | | | |
|----------------|-------------------------------|-------|------|------|------|------|------|------|------|
| | -40°C | -20°C | 0°C | 25°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| SRF2920P030 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.23 | 0.20 | 0.17 | 0.14 |
| SRF2920P050 | 0.76 | 0.67 | 0.59 | 0.50 | 0.42 | 0.38 | 0.33 | 0.29 | 0.23 |
| SRF2920P075 | 1.13 | 1.01 | 0.88 | 0.75 | 0.62 | 0.56 | 0.50 | 0.44 | 0.34 |
| SRF2920P100 | 1.66 | 1.47 | 1.29 | 1.10 | 0.91 | 0.83 | 0.73 | 0.64 | 0.50 |
| SRF2920P125 | 1.89 | 1.68 | 1.46 | 1.25 | 1.04 | 0.94 | 0.83 | 0.73 | 0.56 |
| SRF2920P150 | 2.27 | 2.01 | 1.76 | 1.50 | 1.25 | 1.13 | 1.00 | 0.87 | 0.74 |
| SRF2920P185 | 2.80 | 2.47 | 2.17 | 1.85 | 1.54 | 1.39 | 1.22 | 1.07 | 0.85 |
| SRF2920P200 | 3.02 | 2.68 | 2.34 | 2.00 | 1.80 | 1.70 | 1.54 | 1.40 | 1.30 |
| SRF2920P200/24 | 3.02 | 2.68 | 2.34 | 2.00 | 1.80 | 1.70 | 1.54 | 1.40 | 1.30 |
| SRF2920P250 | 3.78 | 3.35 | 2.93 | 2.50 | 2.25 | 2.13 | 1.93 | 1.75 | 1.63 |
| SRF2920P260 | 3.93 | 3.48 | 3.04 | 2.60 | 2.34 | 2.21 | 2.00 | 1.82 | 1.69 |
| SRF2920P260/24 | 3.93 | 3.48 | 3.04 | 2.60 | 2.34 | 2.21 | 2.00 | 1.82 | 1.69 |
| SRF2920P300 | 4.53 | 4.02 | 3.51 | 3.00 | 2.52 | 2.26 | 1.99 | 1.75 | 1.34 |
| SRF2920P300/24 | 4.53 | 4.02 | 3.51 | 3.00 | 2.52 | 2.26 | 1.99 | 1.75 | 1.34 |
| SRF2920P450 | 6.80 | 6.03 | 5.27 | 4.50 | 4.05 | 3.83 | 3.47 | 3.15 | 2.93 |

Temperature Derating Curve



Dimensions



| P/N | Marking | A | | B | | C | | D |
|----------------|---------|------|------|------|------|------|------|------|
| | | Min | Max | Min | Max | Min | Max | Min |
| SRF2920P030 | T030 | 6.73 | 7.98 | 4.80 | 5.44 | 0.75 | 1.25 | 0.30 |
| SRF2920P050 | T050 | 6.73 | 7.98 | 4.80 | 5.44 | 0.75 | 1.25 | 0.30 |
| SRF2920P075 | T075 | 6.73 | 7.98 | 4.80 | 5.44 | 0.65 | 1.05 | 0.30 |
| SRF2920P100 | T100 | 6.73 | 7.98 | 4.80 | 5.44 | 0.65 | 1.05 | 0.30 |
| SRF2920P125 | T125 | 6.73 | 7.98 | 4.80 | 5.44 | 0.65 | 1.05 | 0.30 |
| SRF2920P150 | T150 | 6.73 | 7.98 | 4.80 | 5.44 | 0.90 | 1.30 | 0.30 |
| SRF2920P185 | T185 | 6.73 | 7.98 | 4.80 | 5.44 | 0.90 | 1.30 | 0.30 |
| SRF2920P200 | T200 | 6.73 | 7.98 | 4.80 | 5.44 | 0.45 | 0.85 | 0.30 |
| SRF2920P200/24 | T200 | 6.73 | 7.98 | 4.80 | 5.44 | 0.90 | 1.30 | 0.30 |
| SRF2920P250 | T250 | 6.73 | 7.98 | 4.80 | 5.44 | 0.45 | 0.95 | 0.30 |
| SRF2920P260 | T260 | 6.73 | 7.98 | 4.80 | 5.44 | 0.45 | 0.85 | 0.30 |
| SRF2920P260/24 | T260 | 6.73 | 7.98 | 4.80 | 5.44 | 1.10 | 1.60 | 0.30 |
| SRF2920P300 | T300 | 6.73 | 7.98 | 4.80 | 5.44 | 0.45 | 0.85 | 0.30 |
| SRF2920P300/24 | T300 | 6.73 | 7.98 | 4.80 | 5.44 | 1.10 | 1.50 | 0.30 |
| SRF2920P450 | T450 | 6.73 | 7.98 | 4.80 | 5.44 | 1.10 | 1.40 | 0.30 |

Packaging Options

| I _{hold(A)} | Quantity |
|---|----------|
| 0.30~1.25A | 1,500pcs |
| 1.5A, 1.85A, 2A/24V, 2.6A/24V, 3A/24V, 4.5A | 1,000pcs |
| 2A, 2.5A, 2.6A, 3A | 2,000pcs |

Reel packaging per EIA-481-1 standard

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