

Surface-Mount Devices | 1812 Size

SRF1812 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		Pd _{typ} (W)	R _{min} (Ω)	R1 _{max} (Ω)
					(A)	(Sec.)			
SRF1812P200/30	2.00	4.00	30	40	8.0	2.00	0.8	0.020	0.120

I_H = Hold current: maximum current at which the device will not trip at 25 °C still air reflow soldering of 260 °C for 20 sec.
 I_T = Trip current: minimum current at which the device will always trip at 25 °C still air reflow soldering of 260 °C for 20 sec.
 V_{max} = Maximum continuous voltage device can withstand without damage at rated current
 I_{max} = Maximum fault current device can withstand without damage at rated voltage.
 T_{trip} = Maximum time to trip(s) at assigned current reflow soldering of 260 °C for 20 sec.
 P_{typ} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

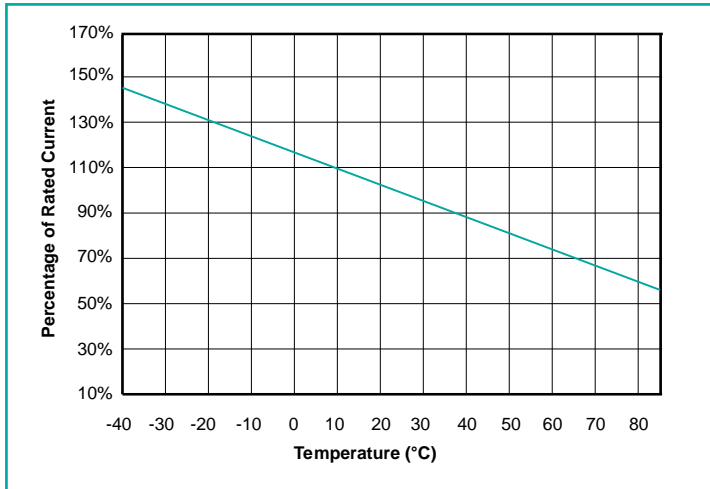
R_{min} = Minimum resistance of device in initial (un-soldered) state.
 R1_{max} = Maximum resistance of device at 25 °C measured one hour after reflow soldering of 260 °C for 20 sec.

Value specified is determined by using the PWB with 0.030" *1.5oz copper traces.
 Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

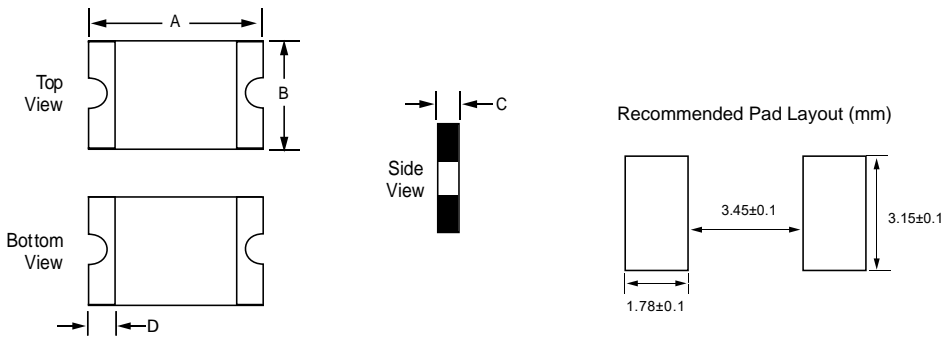
Thermal Derating Chart Hold Current (A)

Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SRF1812P200/30	2.88	2.61	2.25	2.00	1.80	1.66	1.45	1.09	0.80

Temperature Derating Curve



Dimensions



Part Number	A		B		C		D
	Min	Max	Min	Max	Min	Max	Min
SRF1812P200/30	4.37	4.73	3.07	3.41	0.60	1.50	0.30

Packaging Options

I _{hold(A)}	Quantity
2.0A	1,500pcs

Reel packaging per EIA -481 -1 standard

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