

Surface-Mount Devices | 0603 Size

SRF0603 Series

PTC Resettable Fuses

Features

- Resettable over current and over temperature protection
- Small size of 0603
- Fast time-to-trip
- Small footprint
- RoHS complaint
- Low resistance









Applications

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



Electrical Characteristics

Part Number	Ι _Η (A)	Ι _Τ (A)	V _{max} (V)	I _{max} (A)	Time to Trip (A) (Sec.		R_{min} (Ω)	$R1_max$ (Ω)
SRF0603P020	0.20	0.50	9	40	1.00 0.60	0.50	0.55	3.50

 I_H = Hold current: maximum current at which the device will not trip at 25 $^{\circ}$ Still air reflow soldering of 260 $^{\circ}$ for 20 sec.

 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								
Part Number	-40 °C	-20 °C	0 °C	25 °C	40 °C	50 °C	60 °C	70 °C	85 °C
SRF0603P020	0.27	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07

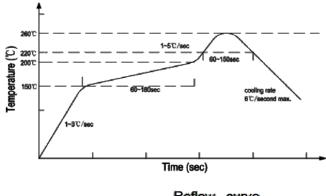
 $l_T=~$ Trip current: minimum current at which the device will always trip at 25 $^{\circ}$ still air reflow soldering of 260 $^{\circ}$ for 20 sec.

 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.

P_{dyp} = Maximum time to trip(s) at assigned current reflow soldering of 260 °C for 20 sec.

P_{dyp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

Solder Reflow Recommendation



Reflow -curve

Recommended reflow methods:IR,hot air oven ,nitrogen oven

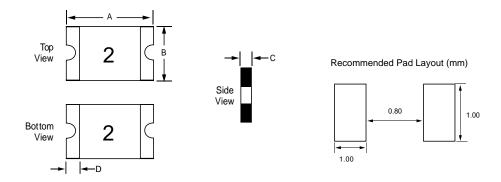
Devices can be cleaned using standard industry methods and solvents.

NOTE:

If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame

Dimensions



De the set of	A		В		С		D
Part Number	Min	Max	Min	Max	Min	Max	Min
SRF0603P020	1.45	1.85	0.65	1.05	0.40	1.00	0.15

Packaging Options

Part Number	Quantity
SRF0603P020	4,000pcs

Reel packaging per EIA-481-1 standard

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