

Surface-Mount Devices | 0603 Size

SRF0603 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_{1max} (Ω)
					(A)	(Sec)			
SRF0603P020 (LR)	0.20	0.50	9.0	35	1.0	0.60	0.50	0.55	1.2~1.5

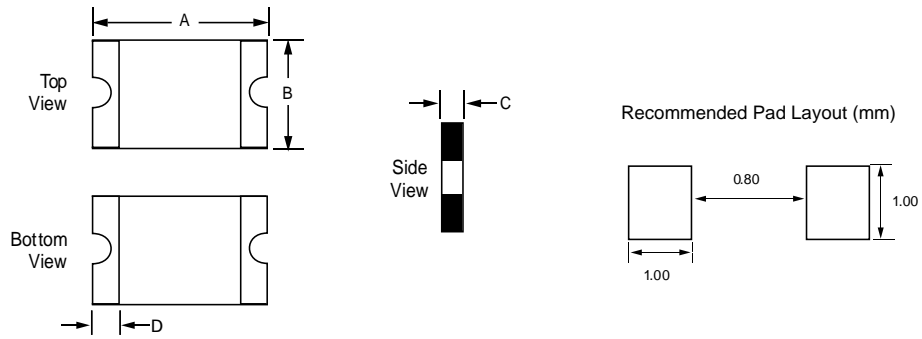
I_{hold} = Hold current: maximum current device will pass without tripping in 25°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 25°C still air.
 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})
 I_{max} = Maximum fault current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

Thermal Derating Chart Hold Current (A)

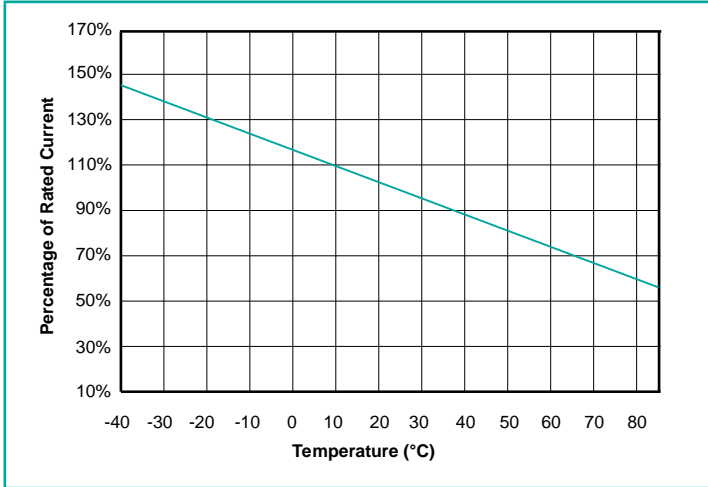
Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SRF0603P020 (LR)	0.27	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07

Dimensions (mm)



Part Number	A	B	C	D
	Max.	Max.	Max.	Min.
SRF0603P020 (LR)	1.85	1.05	1.00	0.15

Temperature Rerating Curve



Packaging Options

$I_{hold}(A)$	Quantity
0.20	4,000pcs

Reel packaging per EIA -481 -1 standard

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