

Surface-Mount Devices | 0805 Size

SRF0805 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.)			
SRF0805P010/24	0.10	0.30	24.0	100	0.5	1.50	0.50	1.000	7.500
SRF0805P010	0.10	0.30	15.0	100	0.5	1.50	0.50	1.000	7.500
SRF0805P020	0.20	0.50	9.0	100	8.0	0.02	0.50	0.650	3.500
SRF0805P035	0.35	0.75	6.0	100	8.0	0.10	0.50	0.250	1.200
SRF0805P050	0.50	1.00	6.0	100	8.0	0.10	0.50	0.150	0.900
SRF0805P075	0.75	1.50	6.0	100	8.0	0.20	0.60	0.090	0.350
SRF0805P100	1.00	2.00	6.0	100	8.0	0.30	0.60	0.060	0.250
SRF0805P110	1.10	2.20	6.0	100	8.0	0.30	0.60	0.060	0.210

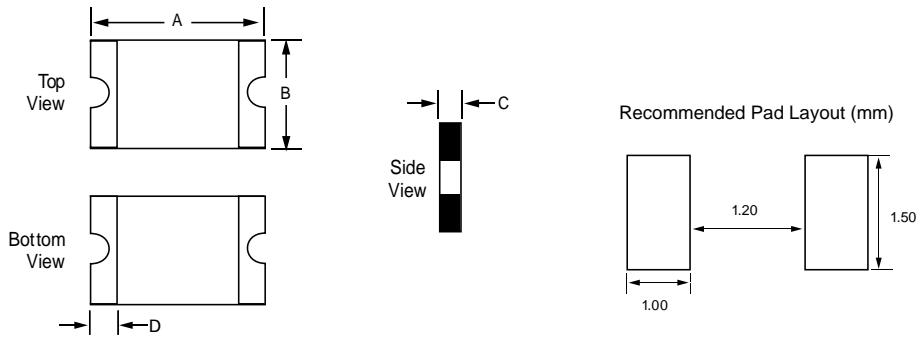
I_{hold} = Hold current: maximum current device will pass without tripping in 25°C still air.
 I_{trip} = Trip current: minimum current at which the device will trip in 25°C still air.
 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})
 I_{max} = Maximum fault current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

Thermal Derating Chart Hold Current (A)

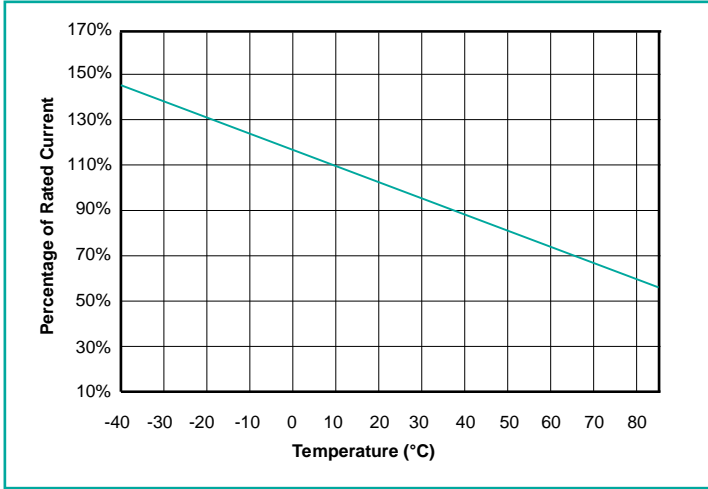
Part Number	Ambient Operating Temperature								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
SRF0805P010/24	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05
SRF0805P010	0.15	0.13	0.12	0.10	0.09	0.08	0.07	0.06	0.05
SRF0805P020	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
SRF0805P035	0.47	0.44	0.39	0.35	0.30	0.27	0.24	0.20	0.14
SRF0805P050	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
SRF0805P075	1.00	0.90	0.79	0.75	0.63	0.57	0.53	0.42	0.35
SRF0805P100	1.45	1.35	1.20	1.00	0.92	0.84	0.75	0.65	0.52
SRF0805P110	1.45	1.35	1.20	1.10	0.92	0.84	0.75	0.65	0.52

Dimensions (mm)



Part Number	Marking	A		B		C		D
		Min.	Max.	Min.	Max.	Min.	Max.	
SRF0805P010/24	1	2.00	2.30	1.20	1.50	0.55	0.95	0.20
SRF0805P010	1	2.00	2.30	1.20	1.50	0.55	0.95	0.20
SRF0805P020	2	2.00	2.30	1.20	1.50	0.55	0.95	0.20
SRF0805P035	3	2.00	2.30	1.20	1.50	0.40	0.80	0.20
SRF0805P050	4	2.00	2.30	1.20	1.50	0.40	0.80	0.20
SRF0805P075	5	2.00	2.30	1.20	1.50	0.60	1.00	0.20
SRF0805P100	6	2.00	2.30	1.20	1.50	0.60	1.00	0.20
SRF0805P110	6	2.00	2.30	1.20	1.50	0.60	1.00	0.20

Temperature Rerating Curve



Packaging Options

$I_{hold}(A)$	Quantity
0.10~0.20, 0.75~1.10	3,500pcs
0.35~0.50	4,500pcs

Reel packaging per EIA -481 -1 standard

© 2017 PROSEMI Inc. All Rights Reserved.
 Specifications and features are subject to change without notice.
www.prosemitech.com

The PROSEMI logo, and all other PROSEMI trademarks are the property of PROSEMI Inc. All other trademarks are the property of their respective owners.