



GP-SM Series PPTC Thermistors (PPTC Resettable Fuses)

Shenzhen Goodpoly Electron Co., Ltd

- △ Radial leaded devices
- △ Very high voltage surge capabilities
- △ Available in lead-free version

- △ Agency Recognition: UL、TUV



Electrical Characteristics

Model	IH (A)	IT (A)	(A)	(S)	V max (V)	I max (A)	R min (Ω)	R max (Ω)	R1 max (Ω)
GP-SM030	0.30	1.60	1.5	4.0	60	10	0.700	1.300	4.800
GP-SM050	0.50	1.00	2.5	4.0	30	10	0.350	0.600	1.400
GP-SM075	0.75	1.50	8.0	3.0	30	40	0.290	0.400	1.000
GP-SM110	1.10	2.20	8.0	2.0	15	40	0.100	0.190	0.480
GP-SM125	1.25	2.50	8.0	2.0	15	40	0.070	0.120	0.250
GP-SM130	1.30	2.60	8.0	4.0	15	40	0.080	0.130	0.280
GP-SM150	1.50	3.00	8.0	5.0	15	40	0.060	0.110	0.250
GP-SM185	1.85	3.70	8.0	5.0	15	40	0.045	0.080	0.165
GP-SM200	2.00	4.00	8.0	12.0	15	40	0.045	0.065	0.125
GP-SM250	2.50	5.00	8.0	25.0	15	40	0.025	0.052	0.085
GP-SM260	2.60	5.20	8.0	20.0	6	40	0.025	0.052	0.075
GP-SM300	3.00	6.00	8.0	35.0	6	40	0.015	0.033	0.048

Vmax (V): Maximum device operating voltage.

IT (A): Tripping current: minimum current at which the device will trip at 25°C under specified condition.

TT (S): Maximum time to trip at specified current. (Devices tested at 40A. The others tested at 5IH)

IH (A): Hold current: maximum current at which the device will not trip at 25°C still air.

I_{max} (A): Maximum fault current device can withstand without damage at rated voltage.

R_o (Ω): Minimum ~ maximum device resistance at 25°C prior to tripping.

R1_{max} (Ω): Maximum device resistance measured in the nontripped state 1 hour post reflow

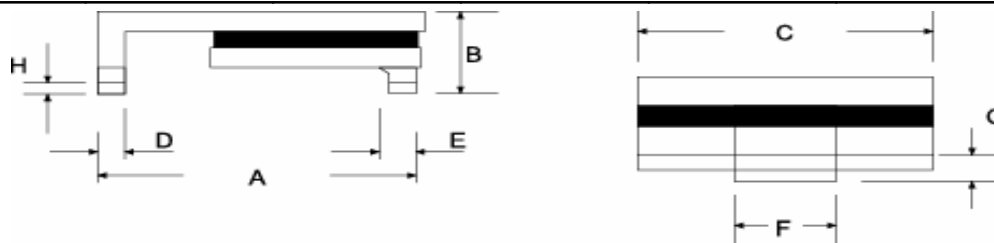


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Dimensions

Model	A		B	C	D	
	Min	Max	Max	Max	Min	Max
GP-SM030	6.73	7.98	3.18	5.44	0.56	0.71
GP-SM050	6.73	7.98	3.18	5.44	0.56	0.71
GP-SM075	6.73	7.98	3.18	5.44	0.56	0.71
GP-SM110	6.73	7.98	3.00	5.44	0.56	0.71
GP-SM125	6.73	7.98	3.00	6.71	0.56	0.71
GP-SM130	8.00	9.50	3.00	6.71	0.56	0.71
GP-SM150	8.00	9.50	3.00	6.71	0.56	0.71
GP-SM185	8.00	9.50	3.00	6.71	0.56	0.71
GP-SM200	8.00	9.50	3.00	6.71	0.56	0.71
GP-SM250	8.00	9.50	3.00	6.71	0.56	0.71
GP-SM260	6.73	7.98	3.18	5.44	0.56	0.71
GP-SM300	6.73	7.98	3.18	5.44	0.56	0.71

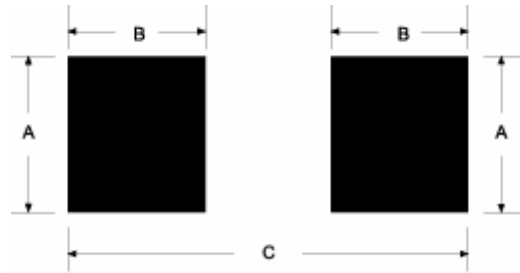


Model	E		F		G		H
	Min	Max	Min	Max	Min	Max	
GP-SM030	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM050	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM075	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM110	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM125	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM130	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM150	0.56	0.71	3.68	3.94	0.66	1.37	0.43
GP-SM185	0.56	0.71	3.68	3.94	0.66	1.37	0.43
GP-SM200	0.56	0.71	3.68	3.94	0.66	1.37	0.43
GP-SM250	0.56	0.71	3.68	3.94	0.66	1.37	0.43
GP-SM260	0.56	0.71	2.16	2.41	0.66	1.37	0.43
GP-SM300	0.56	0.71	2.16	2.41	0.66	1.37	0.43



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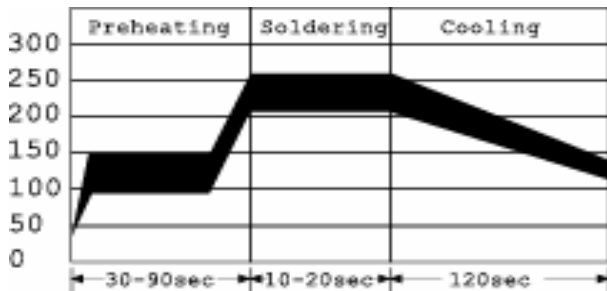
Solder Reflow Recommendations

Model	A nom	B nom	C nom
GP-SM030	3.1	2.3	9.7
GP-SM050	3.1	2.3	9.7
GP-SM075	3.1	2.3	9.7
GP-SM110	3.1	2.3	9.7
GP-SM125	3.1	2.3	9.7
GP-SM130	4.6	2.3	10.7
GP-SM150	4.6	2.3	10.7
GP-SM185	4.6	2.3	10.7
GP-SM200	4.6	2.3	10.7
GP-SM250	4.6	2.3	10.7
GP-SM260	3.1	2.3	9.7
GP-SM300	3.1	2.3	9.7



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Solder Reflow : Recommended Reflow Method: IR, Vapor phase oven, hot air oven. Not designed to be wave soldered. Devices can be cleaned using standard industrial method and solvents .
 Remark : If reflow temperatures exceed the recommended profile, device may be damaged.

Typical T-I Derating Form

Model	Ambient Temperature(°C)								
	-40	-20	0	25	40	50	60	70	85
GP-SM030	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.14
GP-SM050	0.76	0.67	0.59	0.50	0.42	0.38	0.33	0.29	0.23
GP-SM075	1.13	1.01	0.88	0.75	0.62	0.56	0.50	0.44	0.34
GP-SM110	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
GP-SM125	1.89	1.68	1.46	1.25	1.04	0.94	0.83	0.73	0.56
GP-SM150	2.27	2.01	1.76	1.50	1.25	1.31	1.00	0.87	0.68
GP-SM185	2.20	2.08	1.96	1.85	1.70	1.66	1.50	1.48	1.40
GP-SM200	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90
GP-SM250	3.78	3.35	2.93	2.50	2.08	1.88	1.65	1.45	1.13
GP-SM260	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.48
GP-SM300	4.01	3.67	3.32	3.00	2.60	2.40	2.25	2.10	1.80