

GP60 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	V _{max} (v)	R ₀ (Ω)	I _T (A)	I _{max} (A)	T _T (s)	I _H (A)
GP60-005	60	7.30-11.10	0.15	40	5.0	0.05
GP60-010	60	2.50-4.50	0.20	40	8.0	0.10
GP60-017	60	2.00-3.20	0.34	40	5.0	0.17
GP60-020	60	1.50-2.84	0.40	40	3.6	0.20
GP60-025	60	1.00-1.95	0.50	40	3.2	0.25
GP60-030	60	0.76-1.36	0.60	40	3.0	0.30
GP60-040	60	0.52-0.86	0.80	40	3.8	0.40
GP60-050	60	0.41-0.77	1.00	40	4.0	0.50
GP60-065	60	0.27-0.48	1.30	40	5.3	0.65
GP60-075	60	0.18-0.40	1.50	40	6.3	0.75
GP60-090	60	0.14-0.31	1.80	40	7.2	0.90
GP60-110	60	0.14-0.25	2.20	40	8.2	1.10
GP60-135	60	0.12-0.19	2.70	40	9.6	1.35
GP60-160	60	0.09-0.14	3.20	40	11.4	1.60
GP60-185	60	0.08-0.12	3.70	40	12.6	1.85
GP60-250	60	0.05-0.08	5.00	40	15.6	2.50
GP60-300	60	0.04-0.06	6.00	40	19.8	3.00
GP60-375	60	0.03-0.05	7.50	40	24.0	3.75

V_{max} (V): Maximum device operating voltage.

R₀ (Ω): Minimum~maximum device resistance at 25℃ prior to tripping.

I_T (A): Tripping current: minimum current at which the device will trip at 25℃ under specified condition.

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

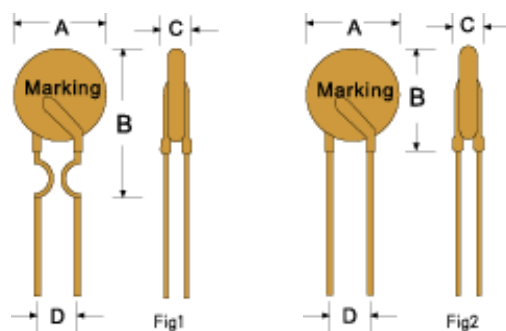
T_T (S): Maximum time to trip at specified current. (Devices tested at 40A.The others tested at 5I_H)

I_H (A): Hold current: maximum current at which the device will not trip at 25℃ still air.

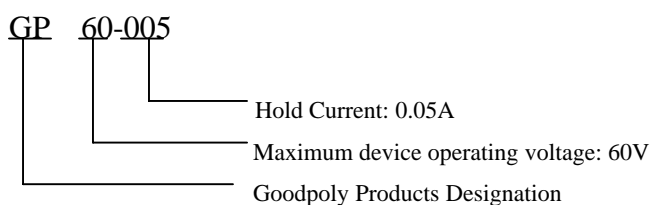
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Dimensions

Model	Amax (mm)	Bmax (mm)	Cmax (mm)	Dtyp (mm)	Diameter of Lead (mm)	Fig.
GP60-005	6.0	11.0	3.1	5.1	Φ0.6	1
GP60-010	6.0	11.0	3.1	5.1	Φ0.6	1
GP60-017	6.0	11.5	3.1	5.1	Φ0.6	1
GP60-020	6.0	11.5	3.1	5.1	Φ0.6	1
GP60-025	6.5	11.5	3.1	5.1	Φ0.6	1
GP60-030	8.0	13.5	3.1	5.1	Φ0.6	1
GP60-040	8.0	14.0	3.1	5.1	Φ0.6	1
GP60-050	8.0	14.0	3.1	5.1	Φ0.6	1
GP60-065	10.0	14.5	3.1	5.1	Φ0.6	1
GP60-075	11.0	15.5	3.1	5.1	Φ0.6	1
GP60-090	12.0	16.5	3.1	5.1	Φ0.6	1
GP60-110	13.0	17.0	3.1	5.1	Φ0.8	2
GP60-135	16.0	18.0	3.1	5.1	Φ0.8	2
GP60-160	17.0	20.0	3.1	5.1	Φ0.8	2
GP60-185	18.0	23.0	3.1	5.1	Φ0.8	2
GP60-250	21.5	23.5	3.1	10.2	Φ0.8	2
GP60-300	25.0	27.5	3.1	10.2	Φ0.8	2
GP60-375	28.5	32.5	3.1	10.2	Φ0.8	2



Part Numbering System

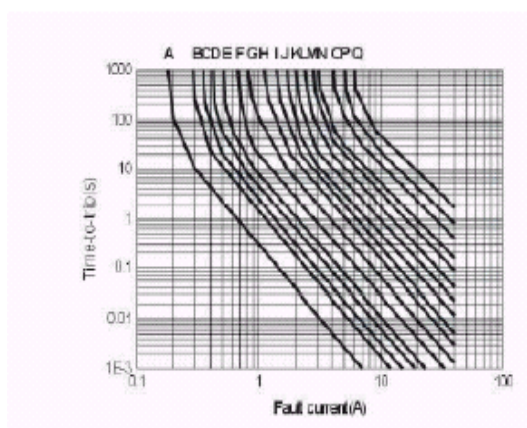


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Typical T-I Derating Form

Model	Ambient Temperature (°C)								
	-40	-20	0	25	40	50	60	70	85
GP60-005	0.077	0.069	0.061	0.050	0.044	0.040	0.0360	0.032	0.025
GP60-010	0.18	0.15	0.13	0.10	0.08	0.07	0.06	0.05	0.03
GP60-017	0.28	0.24	0.20	0.17	0.14	0.12	0.10	0.09	0.06
GP60-020	0.34	0.29	0.25	0.20	0.16	0.14	0.13	0.10	0.07
GP60-025	0.42	0.36	0.31	0.25	0.20	0.18	0.16	0.12	0.09
GP60-030	0.52	0.44	0.38	0.30	0.24	0.22	0.18	0.14	0.10
GP60-040	0.66	0.57	0.50	0.40	0.32	0.29	0.24	0.20	0.14
GP60-050	0.83	0.74	0.63	0.50	0.41	0.36	0.30	0.25	0.18
GP60-065	1.10	0.95	0.82	0.65	0.53	0.47	0.40	0.33	0.24
GP60-075	1.26	1.11	0.95	0.75	0.61	0.54	0.45	0.39	0.28
GP60-090	1.52	1.30	1.15	0.90	0.73	0.65	0.55	0.47	0.33
GP60-110	1.82	1.60	1.35	1.10	0.89	0.79	0.65	0.55	0.40
GP60-135	2.20	1.91	1.65	1.35	1.09	0.96	0.80	0.68	0.50
GP60-160	2.60	2.30	1.95	1.60	1.30	1.13	1.00	0.80	0.60
GP60-185	3.00	2.63	2.30	1.85	1.50	1.33	1.12	0.92	0.67
GP60-250	4.05	3.58	3.02	2.50	2.02	1.80	1.55	1.30	0.90
GP60-300	4.82	4.16	3.62	3.00	2.43	2.16	1.85	1.50	1.09
GP60-375	6.02	5.19	4.50	3.75	3.02	2.68	2.30	1.95	1.39

Typical T-I Charts at 25 °C



- A=GP60-010 I= GP60-075
- B= GP60-017 J= GP60-090
- C= GP60-020 H= GP60-110
- D= GP60-025 L= GP60-135
- E= GP60-030 M= GP60-160
- F= GP60-040 N= GP60-185
- G= GP60-050 O= GP60-250
- H= GP60-065 P= GP60-300
- Q= GP60-375