

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 _o ()	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.

R_o () : 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.

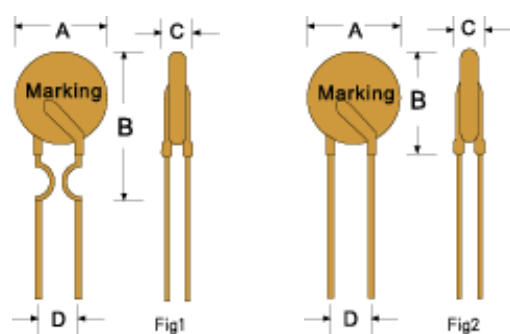
T_T (S) : Maximum time to trip at specified current. (Devices tested at 40A.The others tested at 5I_H)

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

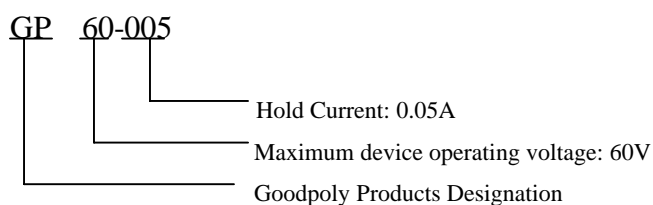
GP60 Series PPTC Thermistors (PPTC Resettable Fuses)

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	0.6	1
GP60-010	6.0	11.0	3.1	5.1	0.6	1
GP60-017	6.0	11.5	3.1	5.1	0.6	1
GP60-020	6.0	11.5	3.1	5.1	0.6	1
GP60-025	6.5	11.5	3.1	5.1	0.6	1
GP60-030	8.0	13.5	3.1	5.1	0.6	1
GP60-040	8.0	14.0	3.1	5.1	0.6	1
GP60-050	8.0	14.0	3.1	5.1	0.6	1
GP60-065	10.0	14.5	3.1	5.1	0.6	1
GP60-075	11.0	15.5	3.1	5.1	0.6	1
GP60-090	12.0	16.5	3.1	5.1	0.6	1
GP60-110	13.0	17.0	3.1	5.1	0.8	2
GP60-135	16.0	18.0	3.1	5.1	0.8	2
GP60-160	17.0	20.0	3.1	5.1	0.8	2
GP60-185	18.0	23.0	3.1	5.1	0.8	2
GP60-250	21.5	23.5	3.1	10.2	0.8	2
GP60-300	25.0	27.5	3.1	10.2	0.8	2
GP60-375	28.5	32.5	3.1	10.2	0.8	2



Part Numbering System

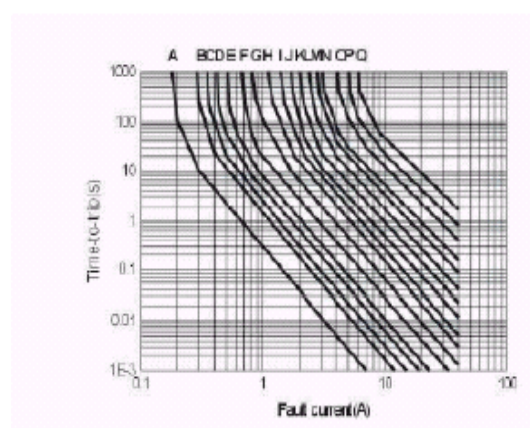


GP60 Series PPTC Thermistors (PPTC Resettable Fuses)

Typical T-I Derating Form

Model	Ambient Temperature()								
	-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



- 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