

GP16 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)
GP16-300	16	0.034-0.105	5.1	100	2.0	3.0
GP16-400	16	0.020-0.063	6.8	100	3.5	4.0
GP16-500	16	0.014-0.044	8.5	100	3.6	5.0
GP16-600	16	0.009-0.030	10.2	100	5.8	6.0
GP16-700	16	0.006-0.021	11.9	100	8.0	7.0
GP16-800	16	0.005-0.018	13.6	100	9.0	8.0
GP16-900	16	0.004-0.015	15.3	100	12.0	9.0
GP16-1000	16	0.003-0.012	17.0	100	12.5	10.0
GP16-1100	16	0.003-0.010	18.7	100	13.5*	11.0
GP16-1200	16	0.002-0.009	20.4	100	16.0	12.0
GP16-1400	16	0.002-0.008	23.8	100	20.0	14.0

* Devices tested at 60A. The others tested at 5 I_H.

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.

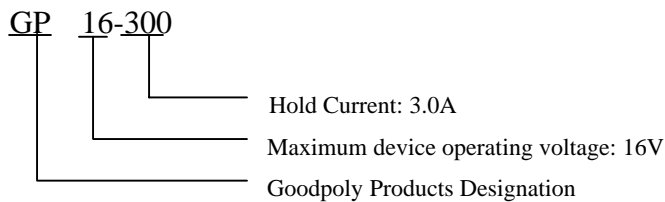
T_T (S): Maximum time to trip at specified current. (Devices tested at 40A.The others tested at 5I_H)

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



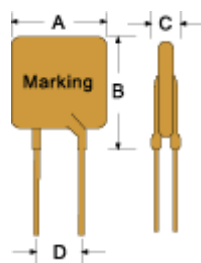
GP16 Series PPTC Thermistors (PPTC Resettable Fuses)

Part Numbering System



Dimensions

Model	Amax (mm)	Bmax (mm)	Cmax (mm)	Dtyp (mm)	Diameter of Lead (mm)	Fig.
GP16-300	8.0	12.0	3.1	5.1	0.8	-
GP16-400	10.0	14.0	3.1	5.1	0.8	-
GP16-500	11.5	14.0	3.1	5.1	0.8	-
GP16-600	11.5	17.0	3.1	5.1	0.8	-
GP16-700	12.0	20.0	3.1	5.1	0.8	-
GP16-800	13.5	21.5	3.1	5.1	0.8	-
GP16-900	15.0	21.5	3.1	5.1	0.8	-
GP16-1000	17.5	25.0	3.1	5.1	0.8	-
GP16-1100	18.5	27.0	3.1	5.1	0.8	-
GP16-1200	18.5	29.0	3.6	10.2	1.0	-
GP16-1400	29.0	29.0	3.6	10.2	1.0	-



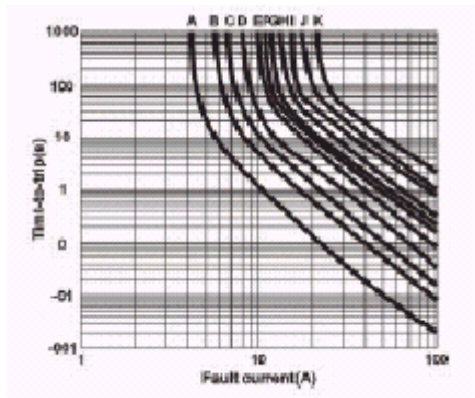


GP16 Series PPTC Thermistors (PPTC Resettable Fuses)

Typical T-I Derating Form

Model	Ambient Temperature()								
	-40	-20	0	25	40	50	60	70	85
GP16-300	4.4	4.0	3.6	3.0	2.6	2.4	2.1	1.9	1.4
GP16-400	5.9	5.3	4.8	4.0	3.5	3.2	2.8	2.5	1.9
GP16-500	7.3	6.6	6.0	5.0	4.4	4.0	3.6	3.1	2.4
GP16-600	8.8	8.0	7.2	6.0	5.2	4.8	4.2	3.8	2.8
GP16-700	10.3	9.3	8.4	7.0	6.2	5.6	5.0	4.4	3.3
GP16-800	11.7	10.7	9.6	8.0	6.9	6.4	5.6	5.1	3.7
GP16-900	13.2	11.9	10.7	9.0	7.9	7.2	6.4	5.6	4.2
GP16-1000	14.7	13.3	12.0	10.0	8.7	8.0	7.0	6.3	4.7
GP16-1100	16.1	14.6	13.1	11.0	9.7	8.8	7.8	6.9	5.2
GP16-1200	17.6	16.0	14.4	12.0	10.4	9.6	8.4	7.6	5.6
GP16-1400	20.5	18.7	16.8	14.0	12.1	11.2	9.8	8.9	6.5

Typical T-I Charts at 25



- A=GP16-300
- B=GP16-400
- C=GP16-500
- D=GP16-600
- E=GP16-700
- F=GP16-800
- G=GP16-900
- H=GP16-1000
- I=GP16-1100
- J=GP16-1200
- K=GP16-1400