

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.

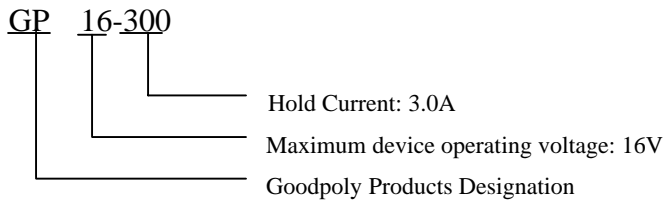
I_{max} (A): Maximum fault current device can withstand without damage at rated voltage.

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.

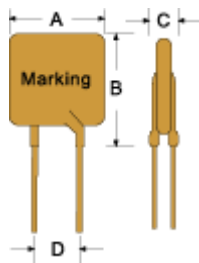
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Part Numbering System



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	-



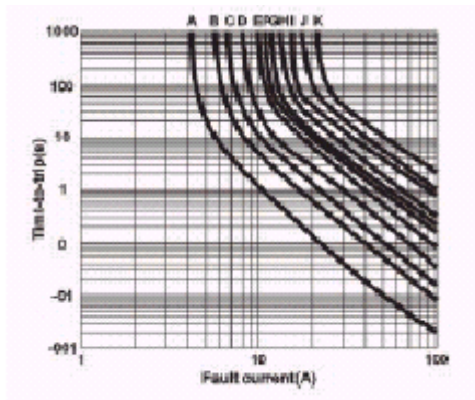


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Typical T-I Derating Form

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