

GP90 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)
GP90-020	90	1.00-2.50	0.40	20	10	0.20
GP90-025	90	0.80-2.00	0.50	20	10	0.25
GP90-035	90	0.60-1.20	0.70	20	10	0.35
GP90-055	90	0.35-0.90	1.10	20	10	0.55
GP90-075	90	0.20-0.60	1.50	20	10	0.75
GP90-090	90	0.10-0.50	1.80	20	10	0.90

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

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

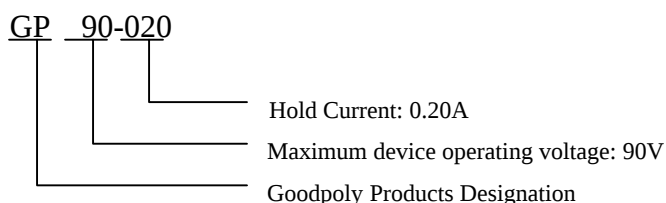
I_T (A): Tripping current: minimum current at which the device will trip at 25 °C under specified condition.

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 °C still air.

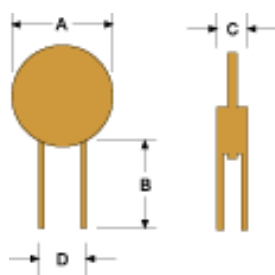
Part Numbering System



GP90 Series PPTC Thermistors (PPTC Resettable Fuses)

Dimensions

Model	Amax (mm)	Bmin (mm)	Cmax (mm)	Dtyp (mm)
GP90-020	5.5	7.6	3.1	5.1
GP90-025	7.5	7.6	3.1	5.1
GP90-035	7.5	7.6	3.1	5.1
GP90-055	11.0	7.6	3.1	5.1
GP90-075	11.0	7.6	3.1	5.1
GP90-090	13.0	7.6	3.1	5.1



引线材料
引线标称直径

镀锡铜线

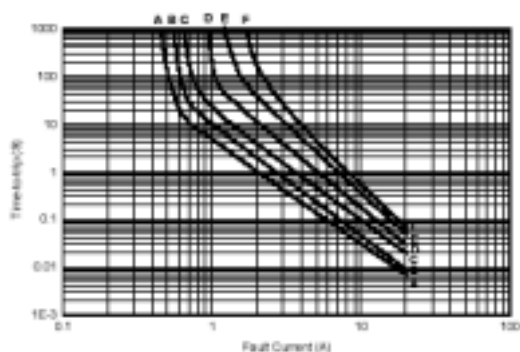
GP90-020 ~ GP90-035 $\Phi 0.6$

GP90-055 ~ GP90-090 $\Phi 0.8$

Typical T-I Derating Form

Model	Ambient Temperature()								
	-40	-20	0	25	40	50	60	70	85
GP90-020	0.30	0.26	0.24	0.20	0.16	0.15	0.13	0.10	0.08
GP90-025	0.38	0.33	0.28	0.25	0.21	0.18	0.16	0.14	0.10
GP90-035	0.54	0.46	0.42	0.35	0.28	0.26	0.23	0.20	0.14
GP90-055	0.86	0.76	0.66	0.55	0.46	0.42	0.36	0.31	0.24
GP90-075	1.16	1.00	0.92	0.75	0.62	0.56	0.50	0.42	0.30
GP90-090	1.42	1.24	1.08	0.90	0.74	0.66	0.58	0.50	0.36

Typical T-I Charts at 25



A=GP90-020

B=GP90-025

C=GP90-035

D=GP90-055

E=GP90-075

F=GP90-090