

GPxxx 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) |
|----------|----------------------|--------------------|--------------------|----------------------|--------------------|--------------------|
| GP070 | 15 | 0.100-0.200 | 1.45 | 100 | 5.0 | 0.70 |
| GP100 | 24 | 0.070-0.130 | 2.50 | 100 | 7.0 | 1.00 |
| GP120 | 15 | 0.085-0.160 | 2.70 | 100 | 5.0 | 1.20 |
| GP-CW120 | 15 | 0.085-0.160 | 2.70 | 100 | 3.0 | 1.20 |
| GP-CW170 | 15 | 0.030-0.052 | 3.40 | 100 | 3.0 | 1.70 |
| GP175 | 15 | 0.050-0.090 | 3.80 | 100 | 5.0 | 1.75 |
| GP-CW175 | 15 | 0.029-0.051 | 3.80 | 100 | 5.0 | 1.75 |
| GP180 | 24 | 0.040-0.068 | 3.80 | 100 | 2.9 | 1.80 |
| GP190 | 24 | 0.030-0.057 | 4.20 | 100 | 3.0 | 1.90 |
| GP200 | 24 | 0.030-0.060 | 4.40 | 100 | 4.0 | 2.00 |
| GP-CW200 | 15 | 0.022-0.039 | 4.50 | 100 | 5.0 | 2.00 |
| GP-CW210 | 15 | 0.018-0.030 | 4.70 | 100 | 5.0 | 2.10 |
| GP-CW240 | 15 | 0.014-0.026 | 5.40 | 100 | 4.0 | 2.40 |
| GP-CW250 | 15 | 0.017-0.046 | 5.20 | 100 | 10.0* | 2.50 |
| GP260 | 24 | 0.025-0.042 | 5.20 | 100 | 5.0 | 2.60 |
| GP300 | 24 | 0.015-0.031 | 6.30 | 100 | 4.0 | 3.00 |
| GP310 | 24 | 0.018-0.030 | 6.00 | 100 | 5.0 | 3.10 |
| GP340 | 24 | 0.016-0.027 | 6.80 | 100 | 5.0 | 3.40 |
| GP350 | 24 | 0.017-0.031 | 6.30 | 100 | 3.0** | 3.50 |
| GP420 | 24 | 0.012-0.024 | 7.60 | 100 | 6.0 | 4.20 |

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.

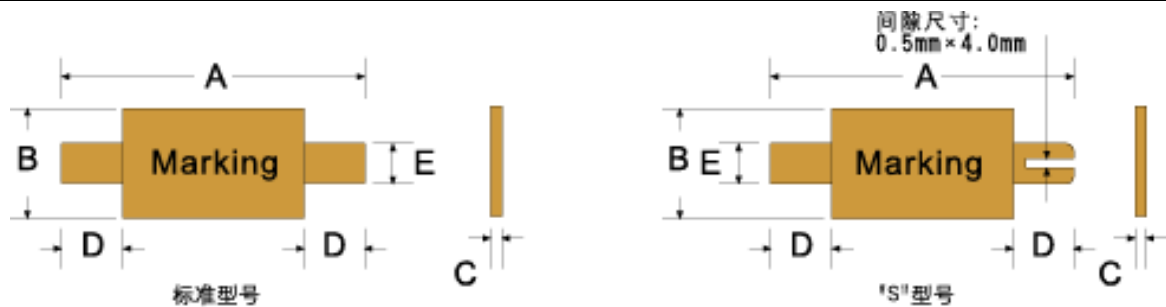
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T_T (S) : Maximum time to trip at specified current. (Devices tested at 40A.The others tested at 5In)

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

Dimensions

| Model | A _{typ} (mm) | B _{typ} (mm) | C _{typ} (mm) | D _{typ} (mm) | E _{typ} (mm) |
|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| GP070 | 20.0 | 5.2 | 0.9 | 6.0 | 4.0 |
| GP100 | 20.0 | 5.2 | 0.8 | 6.0 | 4.0 |
| GP120 | 20.0 | 5.2 | 0.8 | 6.0 | 4.0 |
| GP-CW120 | 22.0 | 5.2 | 1.0 | 5.0 | 4.0 |
| GP-CW170 | 17.5 | 7.3 | 1.0 | 5.0 | 4.0 |
| GP175 | 22.0 | 5.2 | 0.8 | 5.0 | 4.0 |
| GP-CW175 | 22.0 | 3.8 | 1.0 | 5.0 | 3.2 |
| GP180 | 22.0 | 5.2 | 0.8 | 5.0 | 4.0 |
| GP190 | 22.0 | 8.2 | 0.8 | 6.2 | 5.0 |
| GP200 | 22.0 | 8.2 | 0.8 | 6.2 | 5.0 |
| GP-CW200 | 25.0 | 3.8 | 1.0 | 5.0 | 3.2 |
| GP-CW210 | 23.1 | 5.3 | 1.0 | 5.0 | 4.0 |
| GP-CW240 | 33.0 | 5.3 | 1.0 | 5.0 | 4.0 |
| GP-CW250 | 43.0 | 5.3 | 1.0 | 13.0 | 4.0 |
| GP260 | 22.0 | 8.2 | 0.8 | 6.2 | 5.0 |
| GP300 | 27.0 | 13.3 | 0.8 | 6.0 | 5.0 |
| GP310 | 27.0 | 13.3 | 0.8 | 6.0 | 5.0 |
| GP340 | 27.0 | 13.3 | 0.8 | 6.0 | 5.0 |
| GP350 | 27.0 | 13.3 | 0.8 | 6.0 | 5.0 |
| GP420 | 31.0 | 13.3 | 0.8 | 6.3 | 5.0 |





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Typical T-I Derating Form

| Model | -40 | -20 | 0 | 25 | 40 | 50 | 60 | 70 | 85 |
|----------|------|------|------|------|------|------|------|------|------|
| GP070 | 1.32 | 1.21 | 0.99 | 0.70 | 0.63 | 0.60 | 0.50 | 0.39 | 0.26 |
| GP100 | 2.00 | 1.73 | 1.52 | 1.00 | 0.99 | 0.85 | 0.75 | 0.61 | 0.40 |
| GP120 | 1.95 | 1.74 | 1.54 | 1.20 | 1.07 | 0.98 | 0.87 | 0.76 | 0.58 |
| GP-CW170 | 3.20 | 2.70 | 2.20 | 1.70 | 1.30 | 1.10 | 0.80 | 0.60 | |
| GP175 | 2.57 | 2.36 | 2.07 | 1.75 | 1.59 | 1.39 | 1.27 | 1.18 | 0.99 |
| GP-CW175 | 3.20 | 2.70 | 2.20 | 1.75 | 1.30 | 1.00 | 0.80 | 0.50 | |
| GP180 | 3.23 | 2.88 | 2.35 | 1.80 | 1.48 | 1.20 | 1.10 | 0.75 | 0.45 |
| GP190 | 3.50 | 3.00 | 2.51 | 1.90 | 1.60 | 1.35 | 1.20 | 0.88 | 0.52 |
| GP200 | 3.28 | 2.88 | 2.59 | 2.00 | 1.81 | 1.70 | 1.52 | 1.31 | 1.02 |
| GP-CW200 | 3.70 | 3.20 | 2.60 | 2.00 | 1.50 | 1.20 | 0.90 | 0.50 | |
| GP-CW210 | 4.10 | 3.50 | 2.90 | 2.10 | 1.60 | 1.30 | 1.00 | 0.70 | |
| GP-CW240 | 4.40 | 3.70 | 3.10 | 2.40 | 1.80 | 1.50 | 1.20 | 0.90 | |
| GP-CW250 | 4.60 | 3.90 | 3.30 | 2.50 | 1.90 | 1.60 | 1.40 | 1.20 | |
| GP260 | 4.40 | 3.80 | 3.19 | 2.60 | 2.10 | 1.80 | 1.49 | 1.19 | 0.70 |
| GP300 | 5.20 | 4.49 | 3.78 | 3.00 | 2.39 | 2.04 | 1.70 | 1.35 | 0.78 |
| GP310 | 5.46 | 4.68 | 3.80 | 3.10 | 2.45 | 2.11 | 1.80 | 1.40 | 0.80 |
| GP340 | 5.60 | 4.88 | 4.10 | 3.40 | 2.70 | 2.33 | 2.00 | 1.60 | 0.89 |
| GP350 | 5.51 | 4.89 | 4.42 | 3.58 | 3.00 | 2.89 | 2.62 | 2.28 | 1.79 |
| GP420 | 6.53 | 5.81 | 5.20 | 4.20 | 3.69 | 3.38 | 3.10 | 2.75 | 2.24 |