

2PG402

Insulated Gate Bipolar Transistor

■ Features

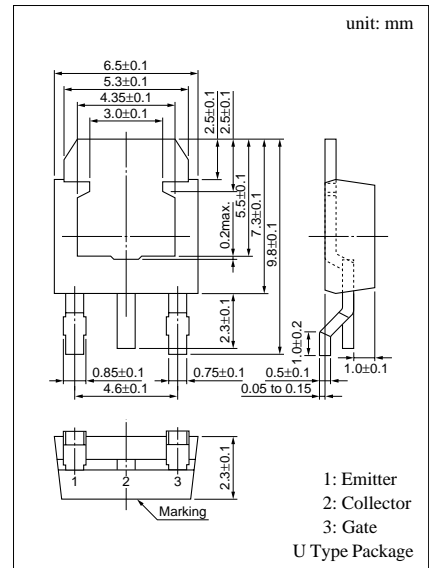
- High breakdown voltage: $V_{CES} = 400V$
- Allowing to control large current: $I_{C(peak)} = 130A$
- Housed in the surface mounting package

■ Applications

- For flash-light for use in a camera

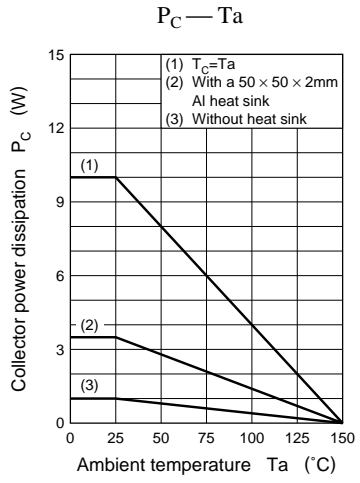
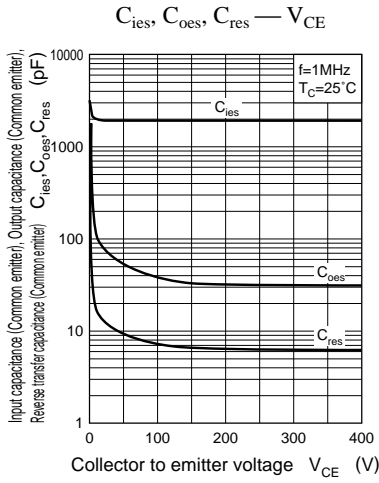
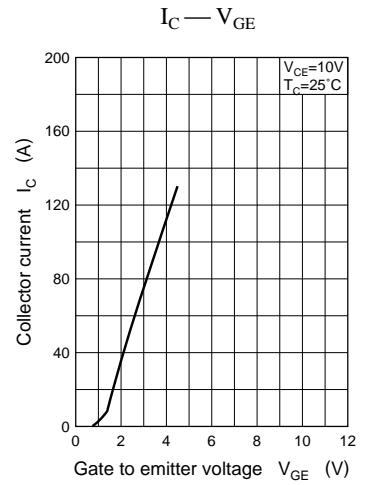
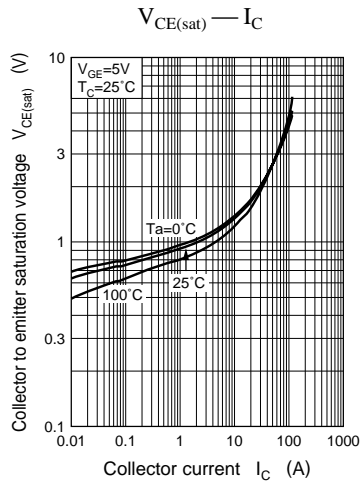
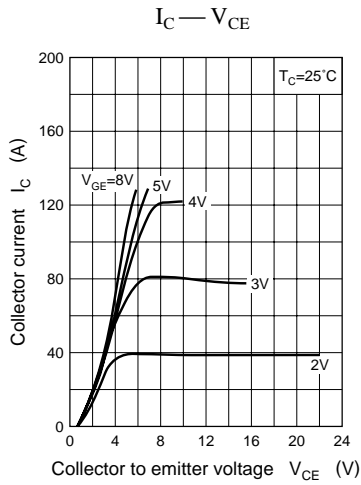
■ Absolute Maximum Ratings ($T_C = 25^\circ C$)

| Parameter | Symbol | Ratings | Unit | |
|------------------------------|--------------------|-------------|------------|---|
| Collector to emitter voltage | V_{CES} | 400 | V | |
| Gate to emitter voltage | V_{GES} | ± 8 | V | |
| Collector current | DC | I_C | 5 | A |
| | Pulse | I_{CP} | 130 | A |
| Allowable power dissipation | $T_C = 25^\circ C$ | P_C | 10 | W |
| | $T_a = 25^\circ C$ | | 1 | |
| Channel temperature | T_{ch} | 150 | $^\circ C$ | |
| Storage temperature | T_{stg} | -55 to +150 | $^\circ C$ | |



■ Electrical Characteristics ($T_C = 25^\circ C$)

| Parameter | Symbol | Conditions | min | typ | max | Unit | |
|---|---------------|--------------------------------------|-------------------------------|------|---------|---------|---------|
| Collector to emitter cut-off current | I_{CES} | $V_{CE} = 320V, V_{GE} = 0$ | | | 10 | μA | |
| Gate to emitter leakage current | I_{GES} | $V_{GE} = \pm 8V, V_{CE} = 0$ | | | ± 1 | μA | |
| Collector to emitter breakdown voltage | V_{CES} | $I_C = 1mA, V_{GE} = 0$ | 400 | | | V | |
| Gate threshold voltage | $V_{GE(th)}$ | $V_{CE} = 10V, I_C = 1mA$ | 0.5 | | 1.5 | V | |
| Collector to emitter saturation voltage | $V_{CE(sat)}$ | $V_{GE} = 5V, I_C = 5A$ | | | 2 | V | |
| | | $V_{GE} = 5V, I_C = 130A$ | | | 10 | | |
| Input capacitance (Common Emitter) | C_{ies} | $V_{CE} = 10V, V_{GE} = 0, f = 1MHz$ | | 1930 | | pF | |
| Turn-on time (delay time) | $t_{d(on)}$ | $V_{CC} = 300V, I_C = 130A$ | | 130 | | ns | |
| Rise time | t_r | | | 1.4 | | μs | |
| Turn-off time (delay time) | $t_{d(off)}$ | | $V_{GE} = 5V, R_g = 25\Omega$ | | 350 | | ns |
| Fall time | t_f | | | | 1.5 | | μs |





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