

SG30TC10M

100V 30A

特長

- Tj = 175°C
- 低 I_R = 40μA
- 熱暴走を起こしにくい

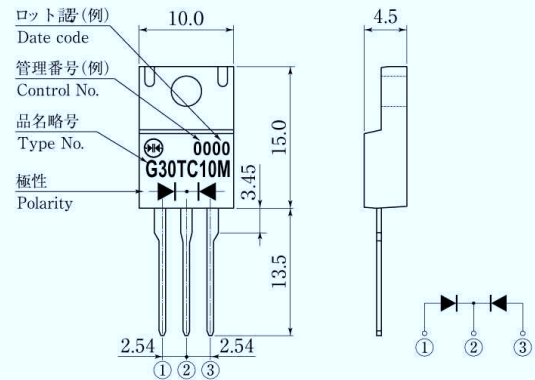
Feature

- Tj=175°C
- Low I_R=40μA
- Resistance for thermal run-away

■外観図 OUTLINE

Package : FTO-220G (3pin)

Unit : mm



外形図については新電元 Web サイトをご参照下さい。捺印表示については捺印仕様をご確認下さい。

For details of the outline dimensions, refer to our web site. As for the marking, refer to the specification "Marking, Terminal Connection".

■定格表 RATINGS

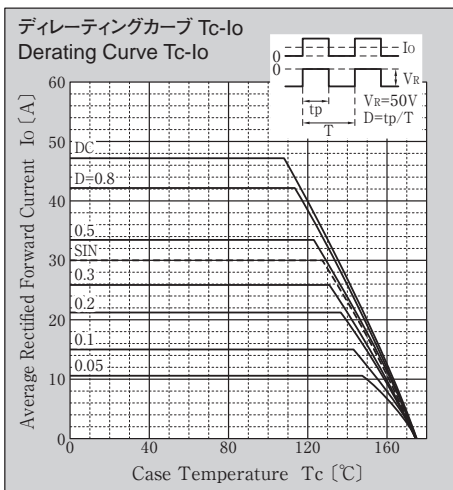
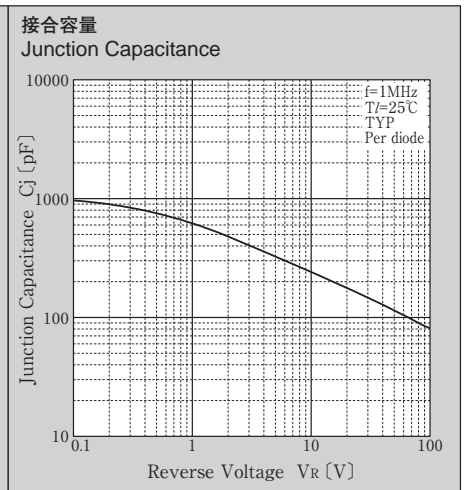
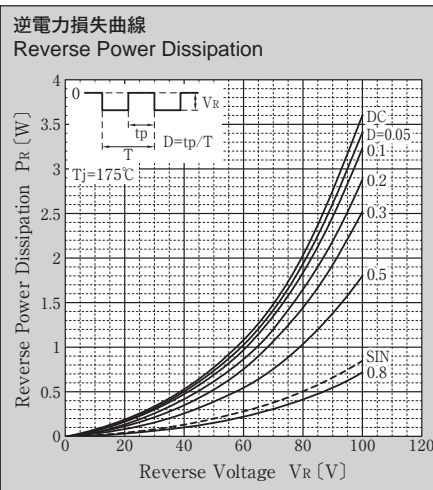
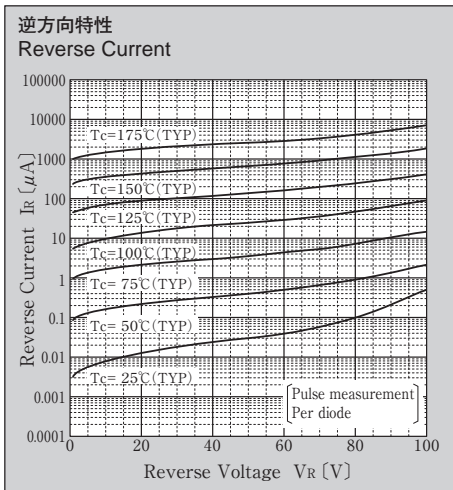
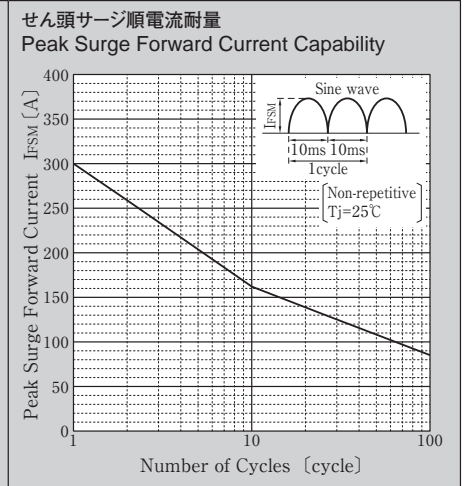
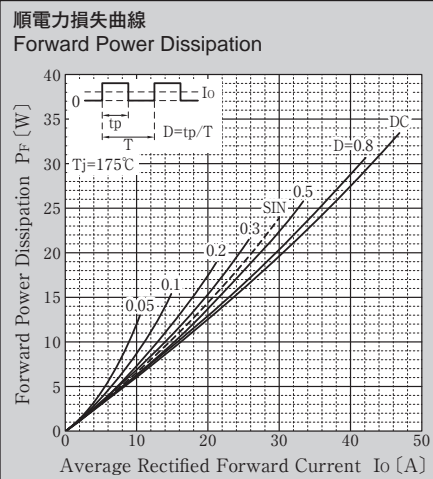
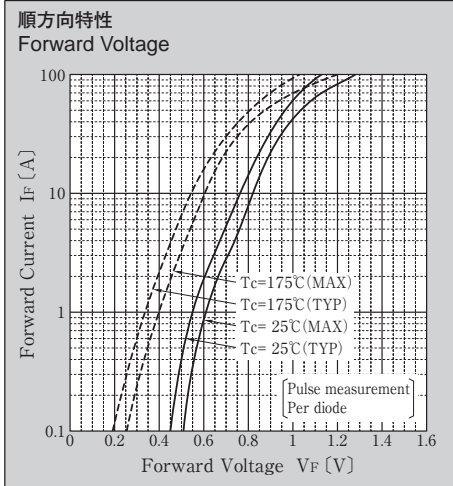
●絶対最大定格 Absolute Maximum Ratings (指定のない場合 T_c = 25°C / unless otherwise specified)

| 項目 Item | 記号 Symbol | 条件 Conditions | 規格値 Ratings | 単位 Unit |
|---|------------------|--|----------------|------------|
| 保存温度 Storage Temperature | T _{stg} | | - 55 ~ 175 | °C |
| 接合部温度 Operating Junction Temperature | T _j | | 175 | °C |
| せん頭逆電圧 Maximum Reverse Voltage | V _{RM} | | 100 | V |
| 出力電流 Average Rectified Forward Current | I _o | 50Hz 正弦波, 抵抗負荷, 1 素子当りの出力電流平均値 I _o /2, T _c = 126°C 50Hz sine wave, Resistance load, Per diode I _o /2, T _c = 126°C | 30 | A |
| せん頭サーージ順電流 Peak Surge Forward Current | I _{FSM} | 50Hz 正弦波, 非繰り返し 1 サイクルせん頭値, T _j = 25°C 50Hz sine wave, Non-repetitive 1 cycle peak value, T _j = 25°C | 300 | A |
| 絶縁耐圧 Dielectric Strength | V _{dis} | 一括端子・ケース裏面間, AC 1 分間印加 Terminals to case backside, AC 1 minute | 1.5 | kV |
| 締め付けトルク Mounting Torque | TOR | (推奨値 : 0.3N・m) (Recommended torque : 0.3N・m) | 0.5 | N・m |

●電氣的・熱的特性 Electrical Characteristics (指定のない場合 T_c = 25°C / unless otherwise specified)

| | | | | |
|------------------------------|-----------------|--|----------------------|------|
| 順電圧 Forward Voltage | V _F | I _F = 15A, パルス測定, 1 素子当りの規格値 Pulse measurement, Per diode | MAX 0.86 TYP 0.80 | V |
| 逆電流 Reverse Current | I _R | V _R = 100V, パルス測定, 1 素子当りの規格値 Pulse measurement, Per diode | MAX 40 | μA |
| 接合容量 Junction Capacitance | C _j | f = 1MHz, V _R = 10V, 1 素子当りの規格値 Per diode | TYP 242 | pF |
| 熱抵抗 Thermal Resistance | θ _{jc} | 接合部・ケース間 Junction to case | MAX 2.0 | °C/W |

■特性図 CHARACTERISTIC DIAGRAMS



* Sine wave は 50Hz で測定しています。
 * 50Hz sine wave is used for measurements.