

SG30SC6M

60V 30A

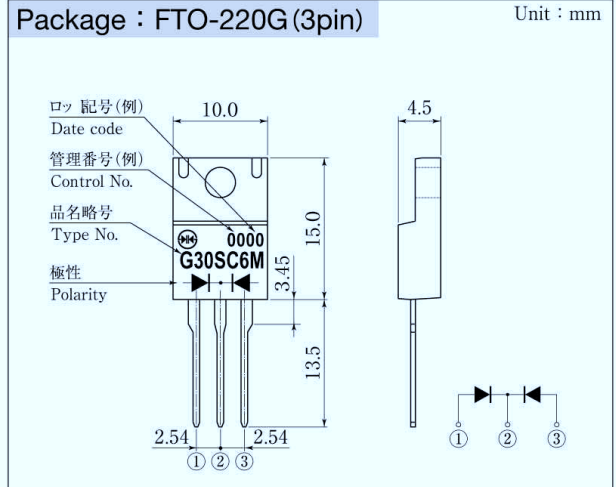
## 特長

- 小型大電流容量

## Feature

- High Io Rating・Small-PKG

## ■ 外観図 OUTLINE



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

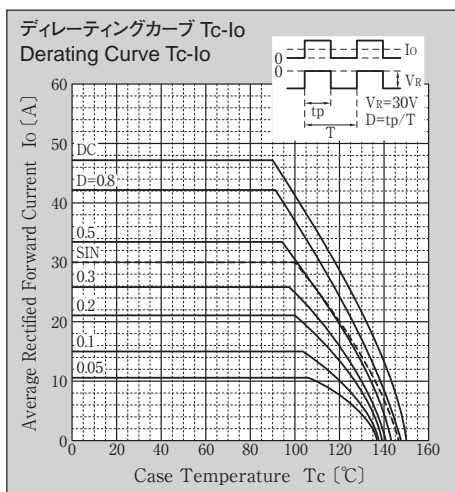
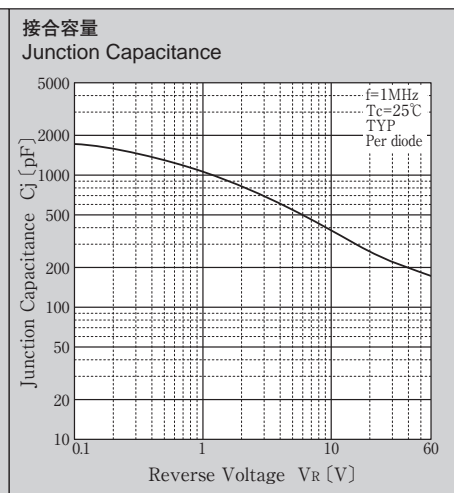
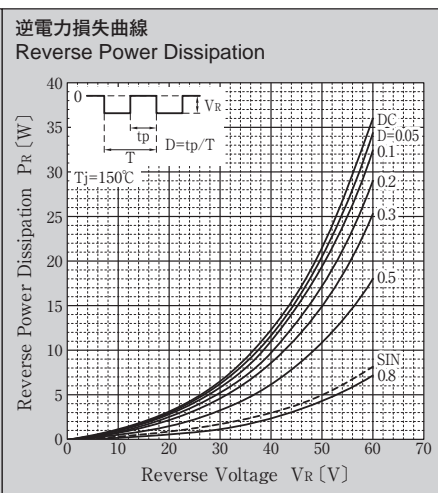
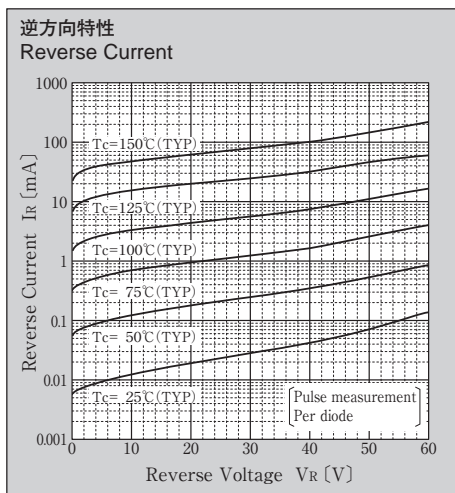
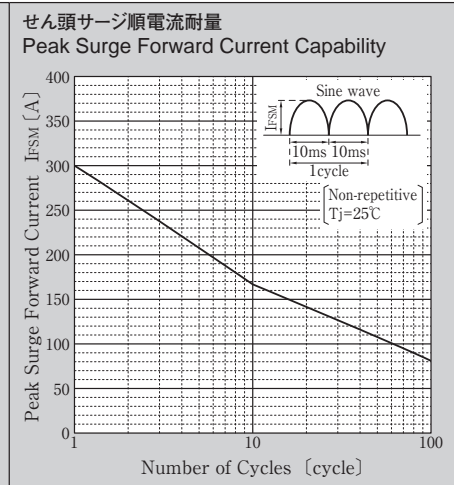
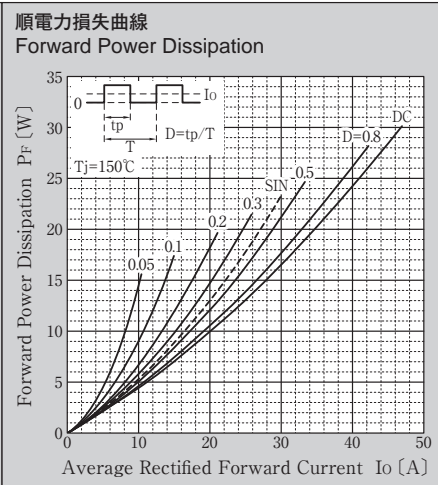
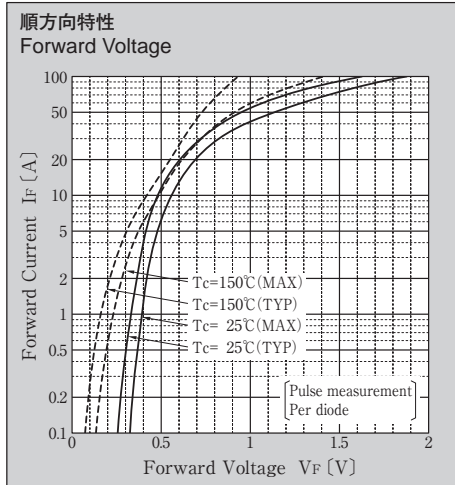
● 絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_c = 25^\circ\text{C}$  / unless otherwise specified)

| 項目<br>Item   | 記号<br>Symbol      | 条件<br>Conditions   | 規格値<br>Ratings | 単位<br>Unit |
|--|-------------------|--|----------------|------------|
| 保存温度<br>Storage Temperature                            | Tstg              |  | - 55 ~ 150     | °C         |
| 接合部温度<br>Operating Junction Temperature                | Tj                |  | 150            | °C         |
| せん頭逆電圧<br>Maximum Reverse Voltage                      | V <sub>RM</sub>   |  | 60             | V          |
| 繰り返しせん頭サージ逆電圧<br>Repetitive Peak Surge Reverse Voltage | V <sub>RRSM</sub> | パルス幅 0.5ms, duty 1/40<br>Pulse width 0.5ms, duty 1/40  | 65             | V          |
| 出力電流<br>Average Rectified Forward Current              | I <sub>O</sub>    | 50Hz 正弦波, 抵抗負荷, 1 素子当りの出力電流平均値 I <sub>O</sub> /2, T <sub>c</sub> = 100°C<br>50Hz sine wave, Resistance load, Per diode I <sub>O</sub> /2, T <sub>c</sub> = 100°C | 30             | A          |
| せん頭サージ順電流<br>Peak Surge Forward Current                | I <sub>FSM</sub>  | 50Hz 正弦波, 非繰り返し 1 サイクルせん頭値, T <sub>j</sub> = 25°C<br>50Hz sine wave, Non-repetitive 1 cycle peak value, T <sub>j</sub> = 25°C                                    | 300            | A          |
| 絶縁耐圧<br>Dielectric Strength                            | V <sub>dis</sub>  | 一括端子・ケース裏面間, AC 1 分間印加<br>Terminals to case backside, AC 1 minute  | 1.5            | kV         |
| 締め付けトルク<br>Mounting Torque                             | TOR               | (推奨値 : 0.3N・m)<br>(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  $T_c = 25^\circ\text{C}$  / unless otherwise specified)

|                              |                 |   |                      |      |
|------------------------------|-----------------|---|----------------------|------|
| 順電圧<br>Forward Voltage       | V <sub>F</sub>  | I <sub>F</sub> = 15A, パルス測定, 1 素子当りの規格値<br>Pulse measurement, Per diode | TYP 0.55<br>MAX 0.61 | V    |
| 逆電流<br>Reverse Current       | I <sub>R</sub>  | V <sub>R</sub> = 60V, パルス測定, 1 素子当りの規格値<br>Pulse measurement, Per diode | MAX 1.2              | mA   |
| 接合容量<br>Junction Capacitance | C <sub>j</sub>  | f = 1MHz, V <sub>R</sub> = 10V, 1 素子当りの規格値<br>Per diode                 | TYP 385              | pF   |
| 熱抵抗<br>Thermal Resistance    | θ <sub>jc</sub> | 接合部・ケース間<br>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.