

SG10L20USM

200V 10A

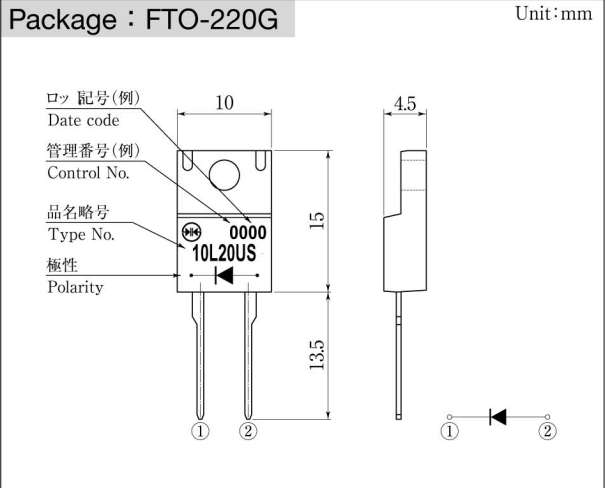
特長

- 高速スイッチング

Feature

- High Recovery Speed

■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

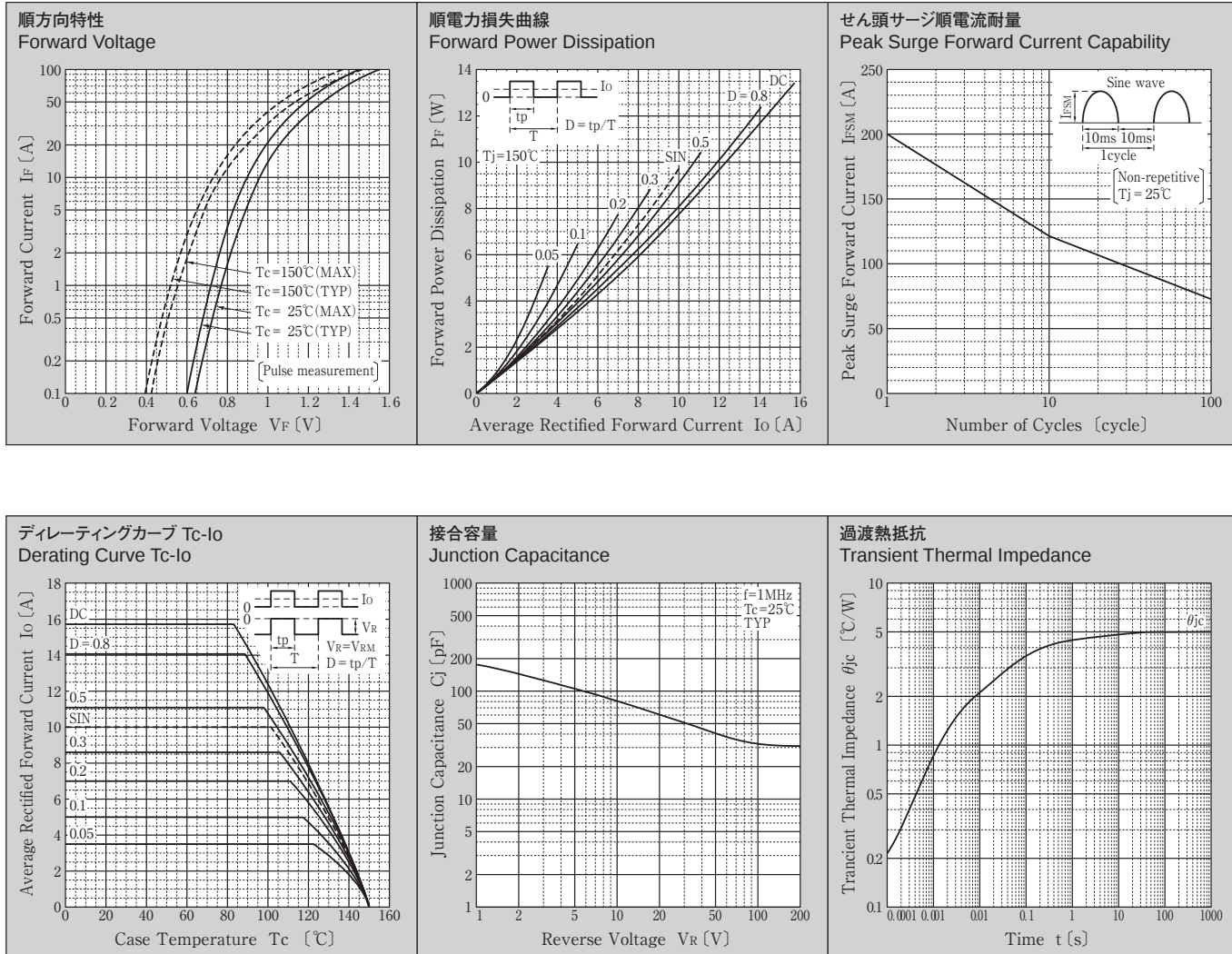
●絶対最大定格 Absolute Maximum Ratings (指定のない場合  $T_c = 25^{\circ}\text{C}$ )

| 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               | $T_{stg}$    |                                                                                                                                       | - 55 ~ 150     | $^{\circ}\text{C}$      |
| 接合部温度<br>Operation Junction Temperature   | $T_j$        |                                                                                                                                       | 150            | $^{\circ}\text{C}$      |
| せん頭逆電圧<br>Maximum Reverse Voltage         | $V_{RM}$     |                                                                                                                                       | 200            | V                       |
| 出力電流<br>Average Rectified Forward Current | $I_o$        | 50Hz 正弦波, 抵抗負荷, $T_c = 101^{\circ}\text{C}$<br>50Hz sine wave, Resistance load, $T_c = 101^{\circ}\text{C}$                           | 10             | A                       |
| せん頭サージ順電流<br>Peak Surge Forward Current   | $I_{FSM}$    | 50Hz 正弦波, 非繰り返し1サイクルせん頭値, $T_j = 25^{\circ}\text{C}$<br>50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j = 25^{\circ}\text{C}$ | 200            | A                       |
| 絶縁耐圧<br>Dielectric Strength               | $V_{dis}$    | 一括端子・ケース裏面間, AC 1分間印加<br>Terminals to case, AC 1 minute                                                                               | 1.5            | kV                      |
| 締め付けトルク<br>Mounting Torque                | TOR          | (推奨値 : $0.3\text{N}\cdot\text{m}$ )<br>(Recommended torque : $0.3\text{N}\cdot\text{m}$ )                                             | 0.5            | $\text{N}\cdot\text{m}$ |

●電氣的・熱的特性 Electrical Characteristics (指定のない場合  $T_c = 25^{\circ}\text{C}$ )

|                                |               |                                                        |                      |                             |
|--------------------------------|---------------|--------------------------------------------------------|----------------------|-----------------------------|
| 順電圧<br>Forward Voltage         | $V_F$         | $I_F = 10\text{A}$ , パルス測定<br>Pulse measurement        | MAX 0.96<br>TYP 0.91 | V                           |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = 200\text{V}$ , パルス測定<br>Pulse measurement       | MAX 10               | $\mu\text{A}$               |
| 逆回復時間<br>Reverse Recovery Time | trr           | $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$ , $0.25 I_R$ | MAX 25               | ns                          |
| 接合容量<br>Junction Capacitance   | $C_j$         | $f = 1\text{MHz}$ , $V_R = 10\text{V}$                 | TYP 80               | pF                          |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jc}$ | 接合部・ケース間<br>Junction to case                           | MAX 5                | $^{\circ}\text{C}/\text{W}$ |

# **■特性図** CHARACTERISTIC DIAGRAMS



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

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工作機器、パーソナル機器、産業用機器等

### 【特別用途】

輸送機器(車載、船舶等)、基幹用通信機器、交通信号機器、防災/防犯機器、各種安全機器、医療  
機器等

### 【特定用途】

原子力制御システム、航空機器、航空宇宙機器、海底中継機器、生命維持のための装置、システム  
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