

**SF10L60U****600V 10A****特長**

- 高耐压FRD
- 低ノイズ
- $t_{rr}=25\text{ns}$
- フルモールド
- 絶縁耐圧 2kV保証

**Feature**

- High Voltage Super FRD
- Low Noise
- $t_{rr}=25\text{ns}$
- Full Molded
- Dielectric Strength 2kV

**用途**

- スイッチング電源
- アクティブフィルタ

**Main Use**

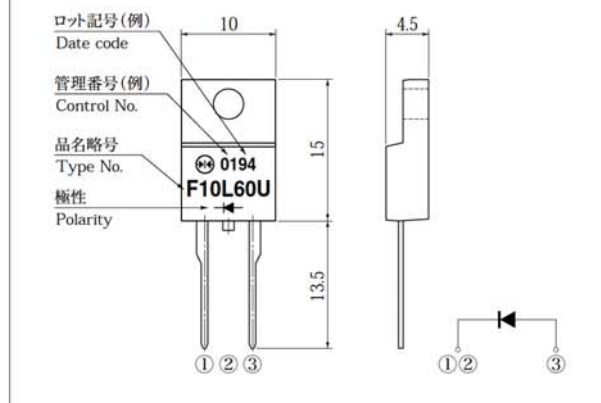
- Switching Regulator
- PFC(Power Factor Correction)

**■外観図 OUTLINE**

Package : FTO-220

Unit:mm

Weight 1.9g(Typ)



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  $T_c = 25^\circ\text{C}$ )

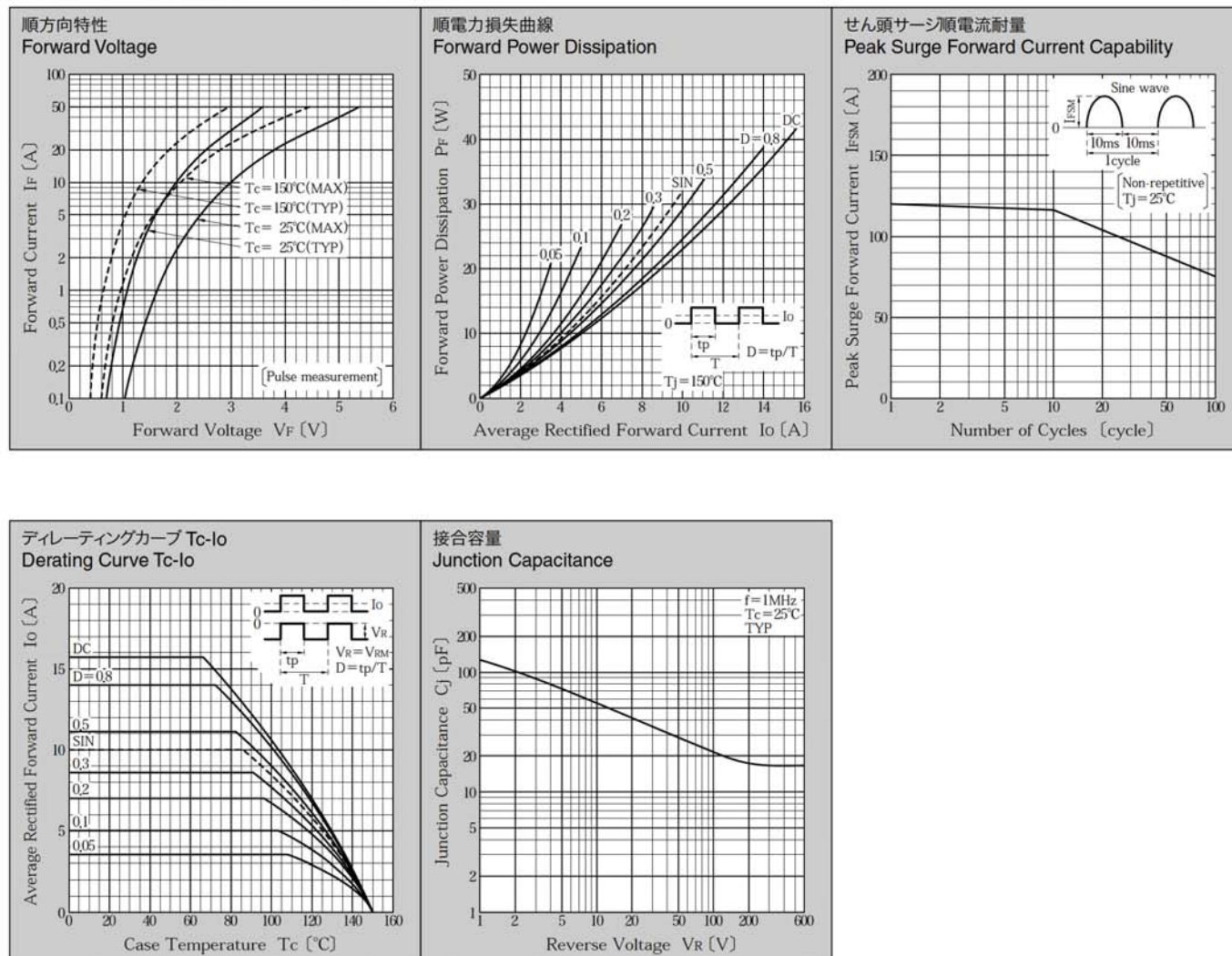
| 項目<br>Item                                | 記号<br>Symbol | 条件<br>Conditions                                                                                                                 | 品名<br>Type No. | SF10L60U | 単位<br>Unit              |
|-------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------|----------------|----------|-------------------------|
| 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         | $V_{RM}$     |                                                                                                                                  |                | 600      | V                       |
| 出力電流<br>Average Rectified Forward Current | $I_o$        | 50Hz正弦波, 抵抗負荷, $T_c = 85^\circ\text{C}$ , フィン付き<br>50Hz sine wave, Resistance load, $T_c = 85^\circ\text{C}$ , With heatsink     |                | 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, $T_j = 25^\circ\text{C}$ |                | 120      | A                       |
| 絶縁耐圧<br>Dielectric Strength               | $V_{dis}$    | 一括端子・ケース間, AC 1分間印加<br>Terminals to case, AC 1 minute                                                                            |                | 2.0      | 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 3.00 | V                         |
| 逆電流<br>Reverse Current         | $I_R$         | $V_R = V_{RM}$ , パルス測定<br>Pulse measurement     | MAX 25   | $\mu\text{A}$             |
| 接合容量<br>Junction Capacitance   | $C_j$         | $f = 1\text{MHz}$ , $V_R = 10\text{V}$          | TYP 55   | pF                        |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.5\text{A}$ , $I_R = 1.0\text{A}$       | MAX 25   | ns                        |
| 熱抵抗<br>Thermal Resistance      | $\theta_{jc}$ | 接合部・ケース間<br>Junction to case                    | MAX 2.0  | $^\circ\text{C}/\text{W}$ |

## Two Terminal Type

### ■特性図 CHARACTERISTIC DIAGRAMS



\* Sine waveは50Hzで測定しています。  
 \* 50Hz sine wave is used for measurements.  
 \* 半導体製品の特性は一般的にバラツキを持っています。  
 Typical is a statistical average of the device's ability.  
 \* Semiconductor products generally have characteristic variation.  
 Typical is a statistical average of the device's ability.

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