

## 低損失超高速ダイオード

### LOW LOSS SUPER HIGH SPEED RECTIFIER

#### ■特長：Features

- 取り付け面が絶縁されたフルモールドタイプ  
Insulated package by fully molding.
- 低 $V_F$   
Low  $V_F$
- スイッチングスピードが非常に速い  
Super high speed switching.
- プレーナー技術による高信頼性  
High reliability by planer design.

#### ■用途：Applications

- 高速電力スイッチング  
High speed power switching.

#### ■定格と特性：Maximum Ratings and Characteristics

##### ●絶対最大定格：Absolute Maximum Ratings

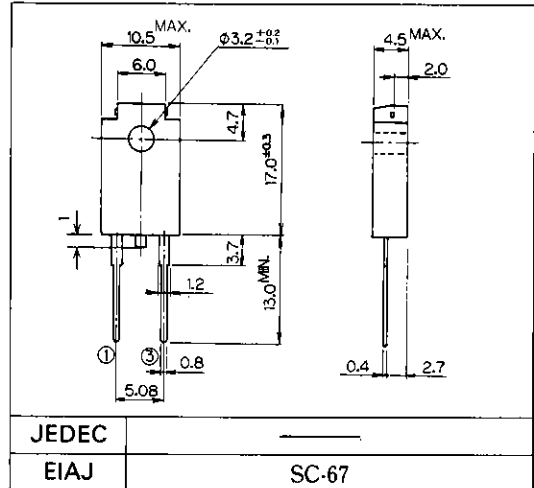
| Items   | Symbols   | Conditions   | Ratings    | Units            |
|---|-----------|--|------------|------------------|
| ピーク繰り返し逆電圧<br>Repetitive Peak Reverse Voltage | $V_{RRM}$ |  | 200        | V                |
| 平均出力電流<br>Average Output Current              | $I_O$     | 矩形波, duty = 1/2, $T_C = 116^\circ\text{C}$<br>Rectangle wave | 10         | A                |
| サージ電流<br>Surge Current                        | $I_{FSM}$ | 正弦波 Sine wave<br>10ms  | 80         | A                |
| 接合温度<br>Operating Junction Temperature        | $T_j$     |  | -40 ~ +125 | $^\circ\text{C}$ |
| 保存温度<br>Storage Temperature                   | $T_{stg}$ |  | -40 ~ +125 | $^\circ\text{C}$ |

##### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

Electrical Characteristics ( $T_a = 25^\circ\text{C}$  Unless otherwise specified)

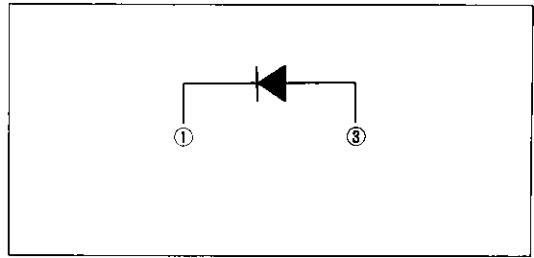
| Items                          | Symbols       | Conditions   | Max. | Units                     |
|--------------------------------|---------------|--|------|---------------------------|
| 順電圧<br>Forward Voltage Drop    | $V_{FM}$      | $I_F = 10\text{A}$   | 0.98 | V                         |
| 逆電流<br>Reverse Current         | $I_{RRM}$     | $V_R = V_{RRM}$  | 200  | $\mu\text{A}$             |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.1\text{A}, I_R = 0.1\text{A}, I_{rec} = 0.05\text{A}$ | 35   | ns                        |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合・ケース間<br>Junction to case                                    | 3.5  | $^\circ\text{C}/\text{W}$ |

#### ■外形寸法：Outline Drawings

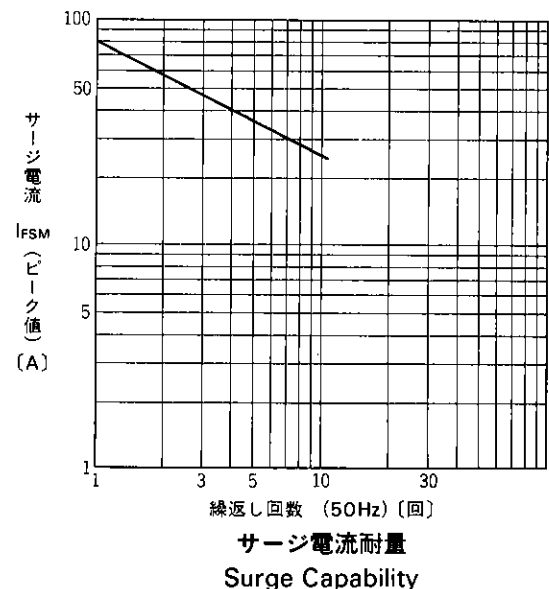
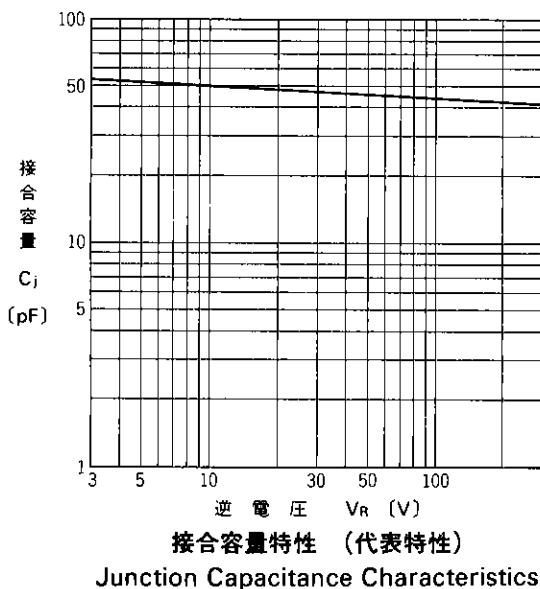
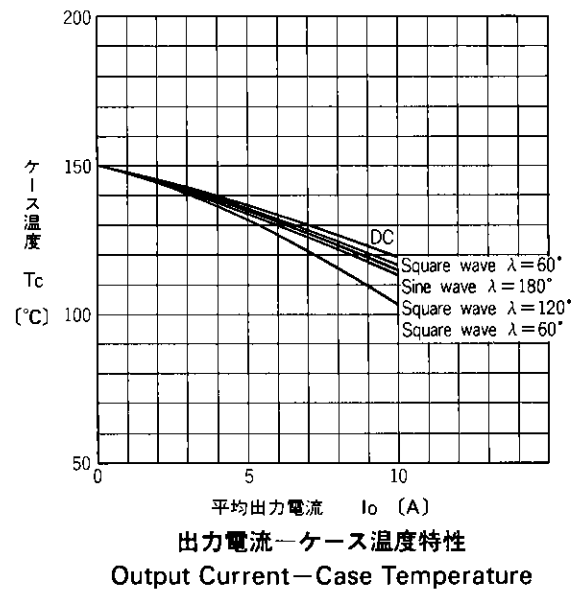
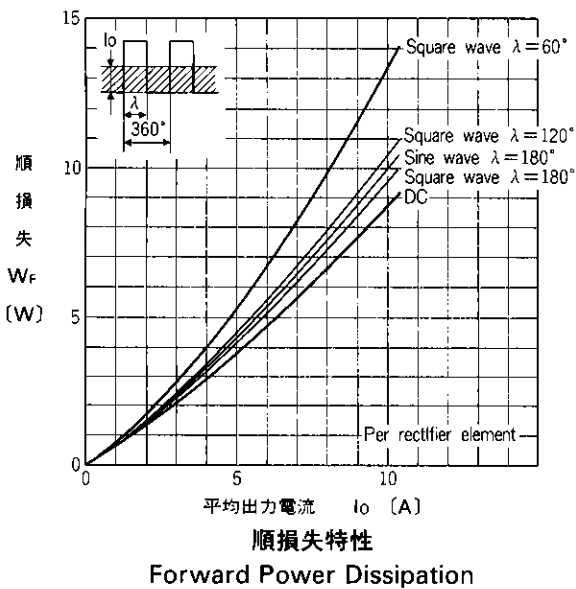
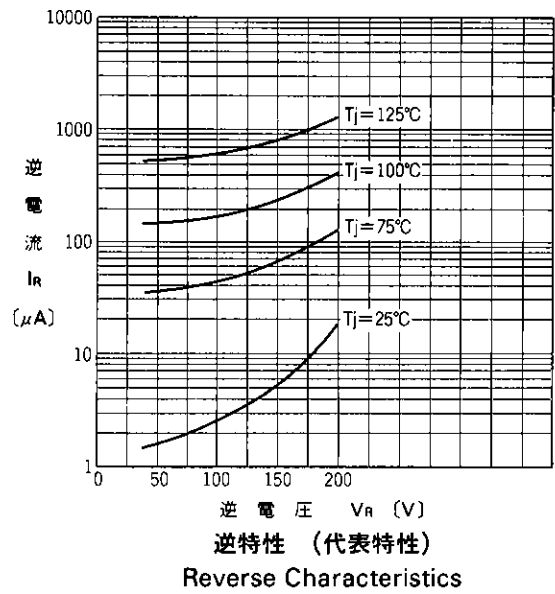
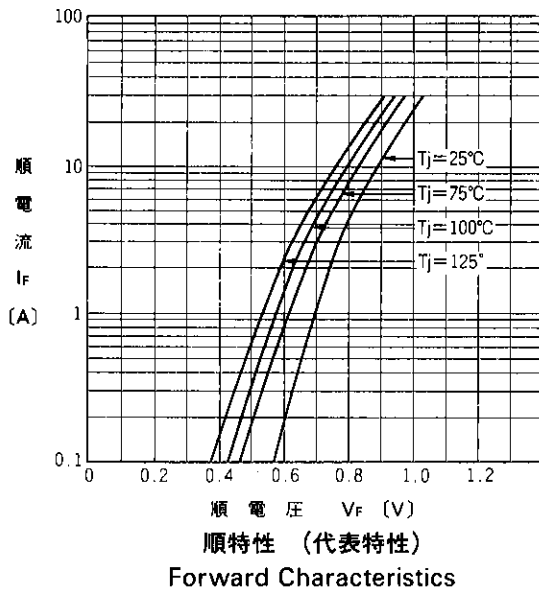


#### ■電極接続

##### Connection Diagram



■特性曲線：Characteristics



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