

## 高速整流ダイオード

### FAST RECOVERY DIODE

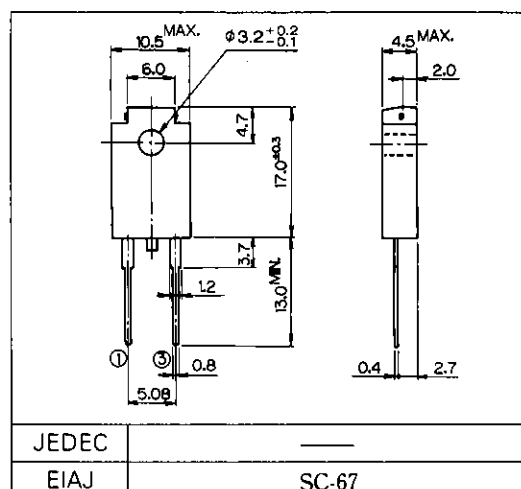
#### ■特長：Features

- 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.
- メサ形のため耐圧が高い  
High voltage by mesa design.
- 高信頼性  
High reliability

#### ■用途：Applications

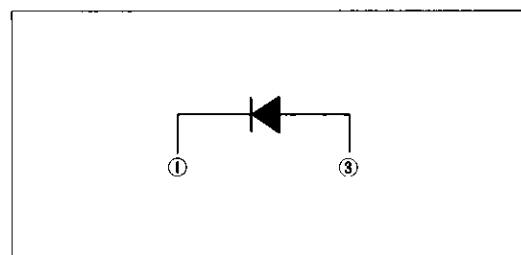
- 高速スイッチング  
High speed switching.

#### ■外形寸法：Outline Drawings



#### ■電極接続

##### Connection Diagram



#### ■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      | $V_{RRM}$ |                                                           | 600        | V                |
| ピーク非繰り返し逆電圧<br>Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ |                                                           | 600        | V                |
| 平均出力電流<br>Average Output Current                   | $I_O$     | 方形波, duty = 1/2, $T_c = 100^\circ\text{C}$<br>Square wave | 4          | A                |
| サージ電流<br>Surge Current                             | $I_{FSM}$ | 正弦波 Sine wave<br>10ms                                     | 50         | Ap               |
| 接合温度<br>Operating Junction Temperature             | $T_j$     |                                                           | -40 ~ +150 | $^\circ\text{C}$ |
| 保存温度<br>Storage Temperature                        | $T_{stg}$ |                                                           | -40 ~ +150 | $^\circ\text{C}$ |

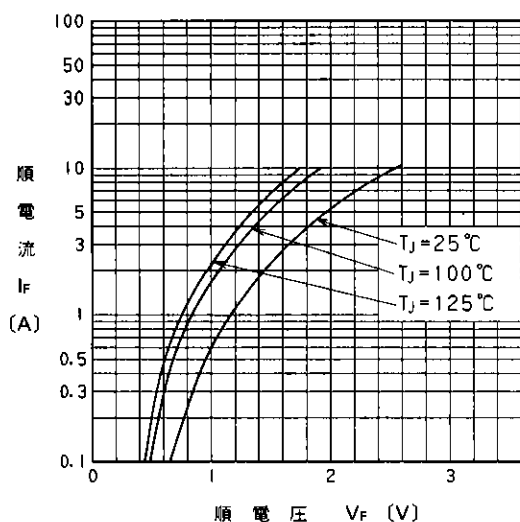
##### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

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

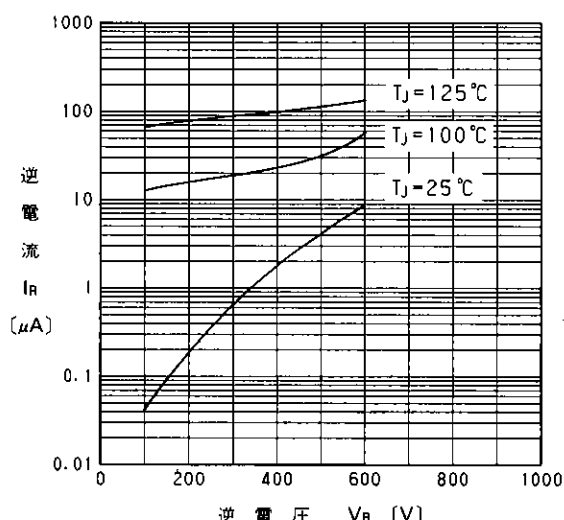
| Items                          | Symbols       | Conditions                                | Max. | Units              |
|--------------------------------|---------------|-------------------------------------------|------|--------------------|
| 順電圧<br>Forward Voltage Drop    | $V_{FM}$      | $I_{FM} = 4.0\text{A}$                    | 2.6  | V                  |
| 逆電流<br>Reverse Current         | $I_{RRM}$     | $V_R = V_{RRM}$                           | 100  | $\mu\text{A}$      |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.1\text{A}$ , $I_R = 0.1\text{A}$ | 60   | ns                 |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合・ケース間 平滑直流<br>junction to case          | 3.5  | $^\circ\text{C/W}$ |

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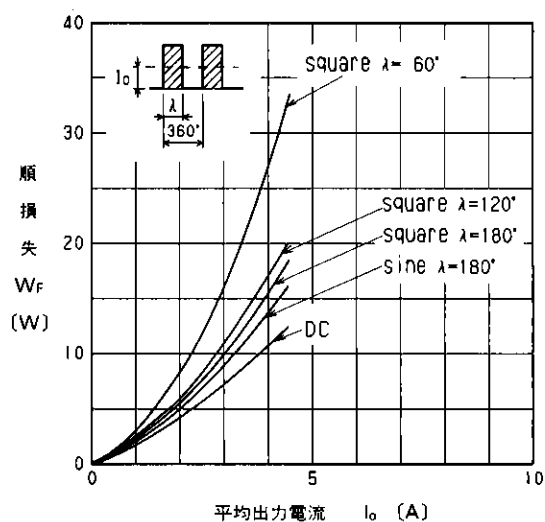
## ■特性曲線：Characteristics



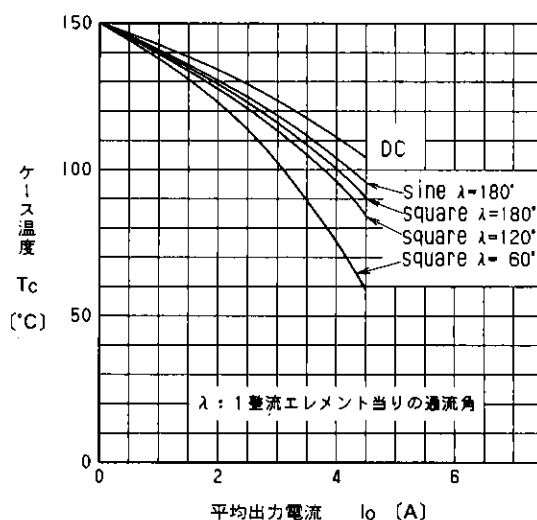
Forward Characteristics



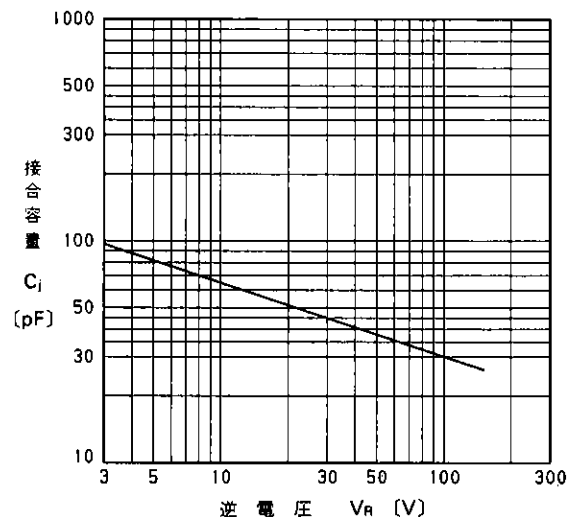
Reverse Characteristics



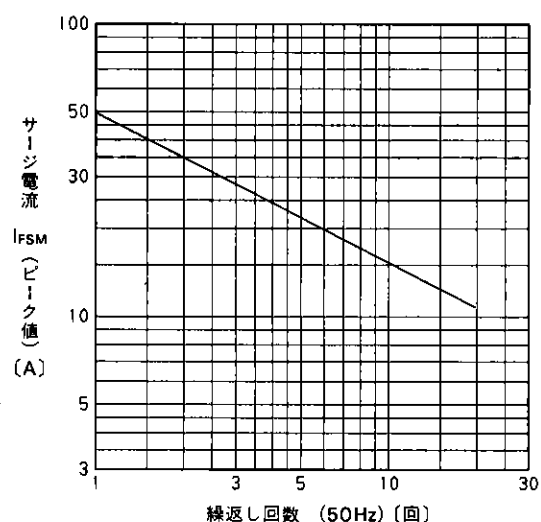
Forward Power Dissipation



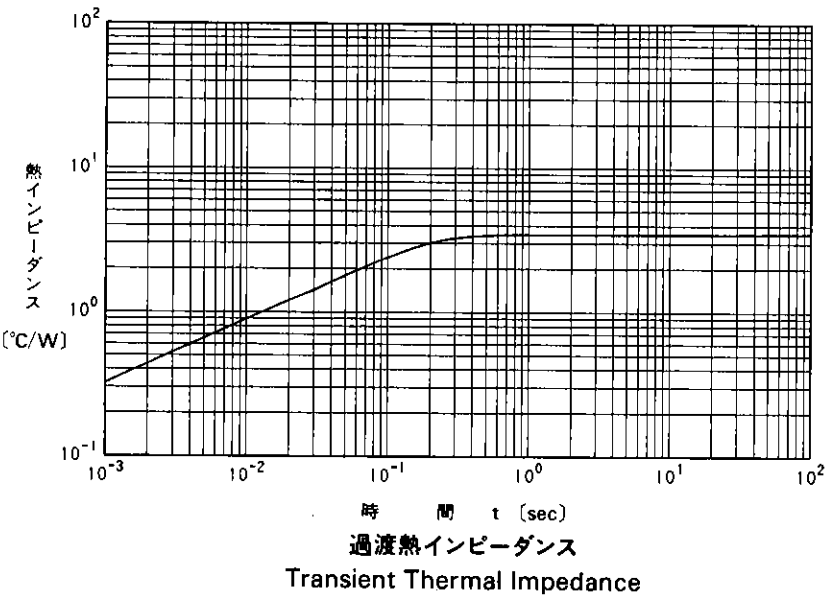
Output Current-Case Temperature



Junction Capacitance Characteristics



Surge Capacity



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