

## ショットキーバリアダイオード

## SCHOTTKY BARRIER DIODE

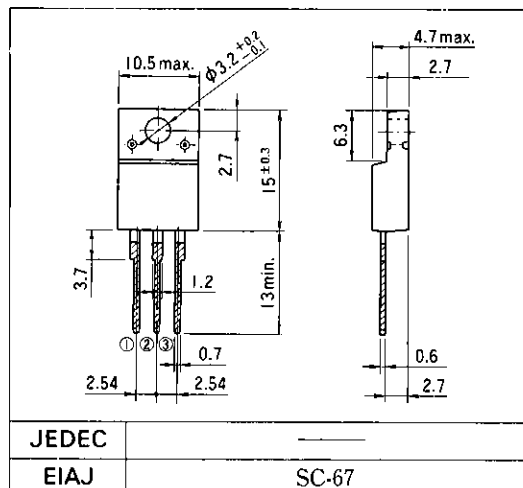
## ■特長：Features

- 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.
- 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

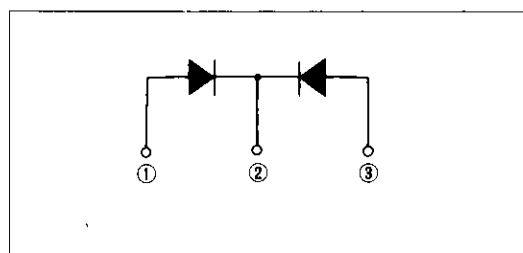
- 高速電力スイッチング  
High speed power switching.

## ■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      | $V_{RRM}$ |                                                        | 60              | V                  |
| ピーク非繰り返し逆電圧<br>Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ |                                                        | 60              | V                  |
| 絶縁耐圧<br>Isolating Voltage                          | $V_{ISO}$ | 一括端子・ケース間、AC1分間印加<br>Terminals-to-Case, AC, 1 min.     | 1500            | V                  |
| 平均出力電流<br>Average Output Current                   | $I_O$     | 方形波, duty=1/2, $T_c=92^{\circ}\text{C}$<br>Square wave | 10*             | A                  |
| サージ電流<br>Surge Current                             | $I_{FSM}$ | 正弦波 Sine wave<br>10ms 定格負荷状態より                         | 80              | A                  |
| 接合温度<br>Operating Junction Temperature             | $T_J$     |                                                        | $-40 \sim +125$ | $^{\circ}\text{C}$ |
| 保存温度<br>Storage Temperature                        | $T_{stg}$ |                                                        | $-40 \sim +125$ | $^{\circ}\text{C}$ |

- 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)

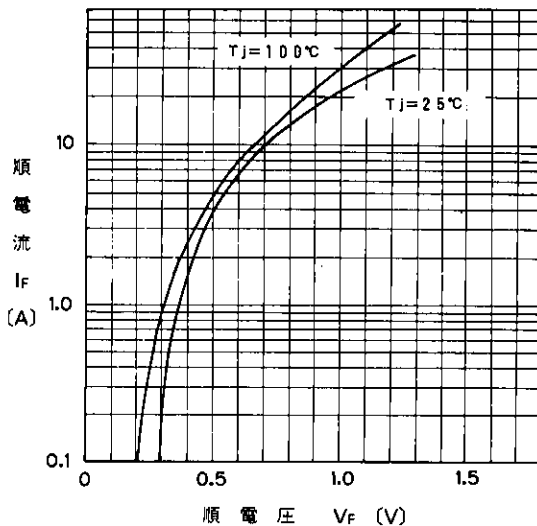
### Electrical Characteristics (Ta=25°C Unless otherwise specified)

※センタータップ平均出力電流

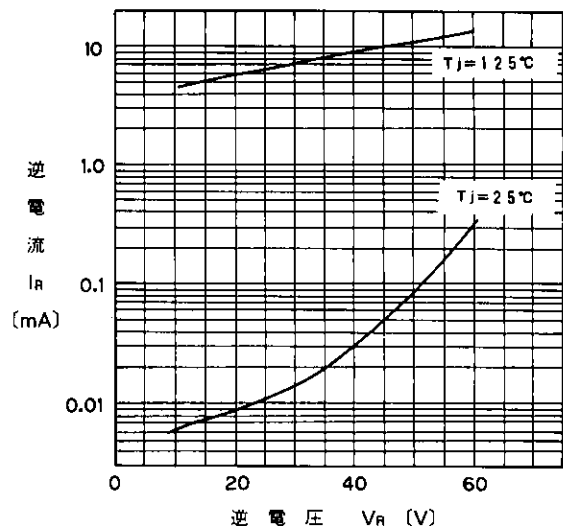
\* average forward current of centertap full wave connection

| Items                       | Symbols       | Conditions                  | Max. | Units |
|-----------------------------|---------------|-----------------------------|------|-------|
| 順電圧<br>Forward Voltage Drop | $V_{FM}$      | $I_{FM} = 4A$               | 0.58 | V     |
| 逆電流<br>Reverse Current      | $I_{RRM}$     | $V_R = V_{RRM}$             | 5.0  | mA    |
| 熱抵抗<br>Thermal Resistance   | $R_{th(j-c)}$ | 接合・ケース間<br>Junction to case | 3.5  | °C/W  |

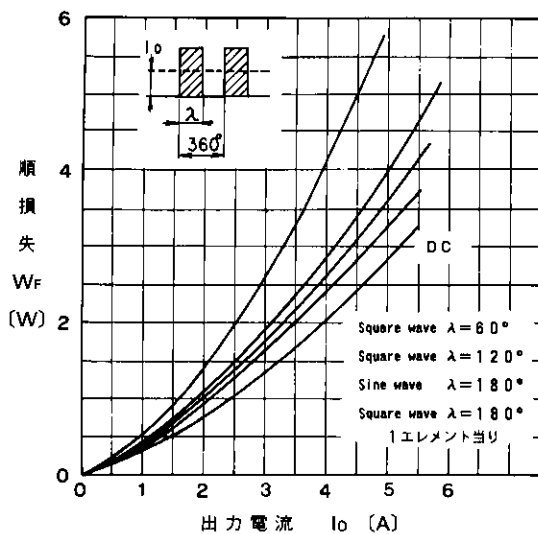
## ■特性曲線：Characteristics



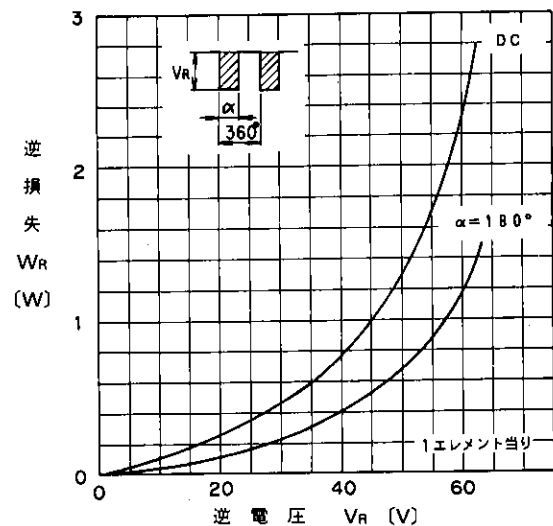
Forward Characteristics



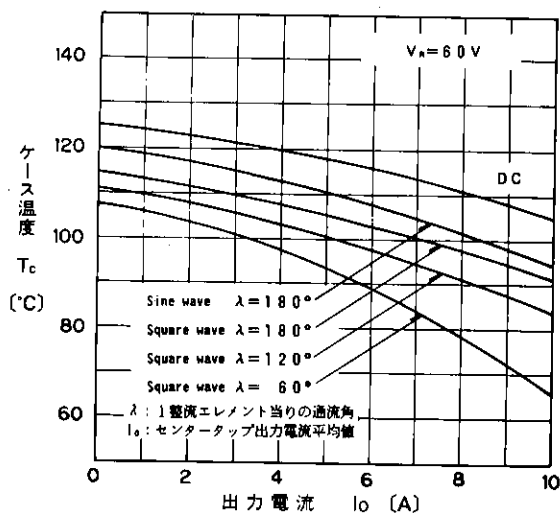
Reverse Characteristics



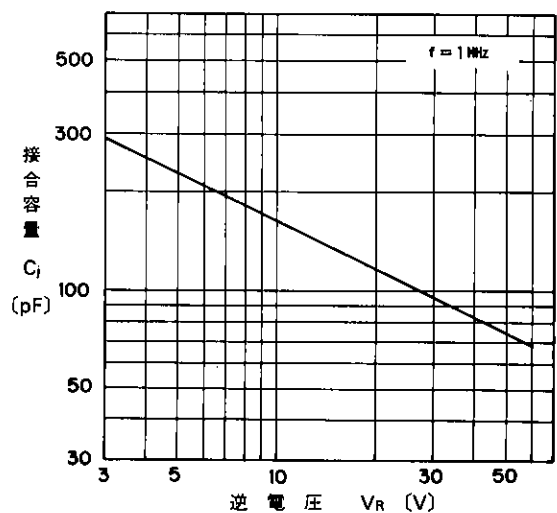
Forward Power Dissipation



Reverse Power Dissipation

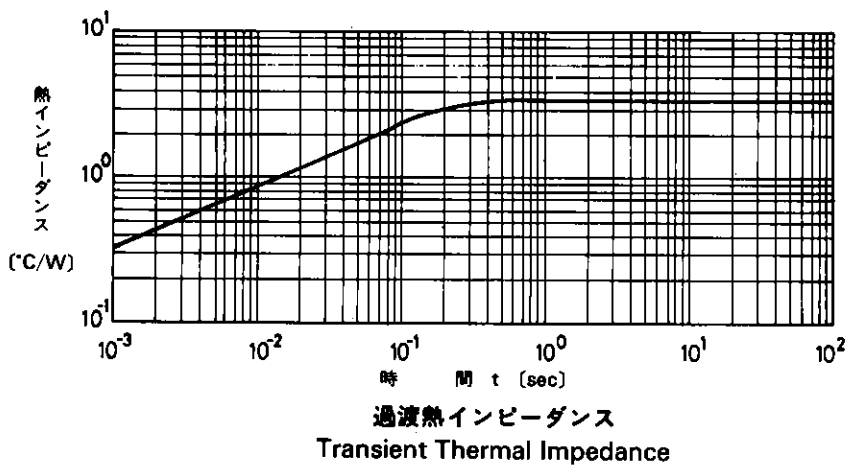
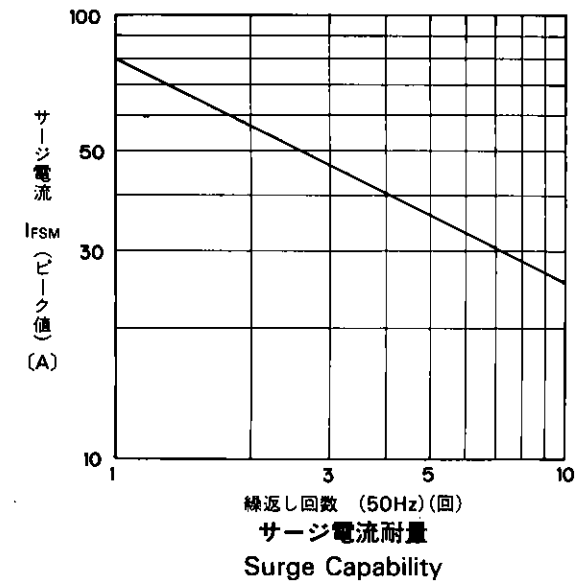


Output Current-Case Temperature



Junction Capacitance Characteristics

A



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