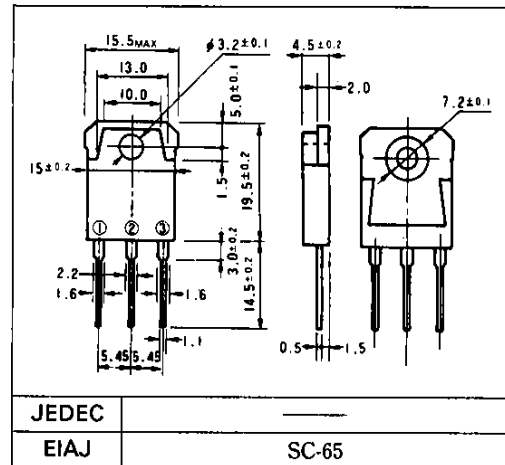


## 低損失超高速ダイオード

### LOW LOSS SUPER HIGH SPEED RECTIFIER

## ■外形寸法：Outline Drawings



## ■特長：Features

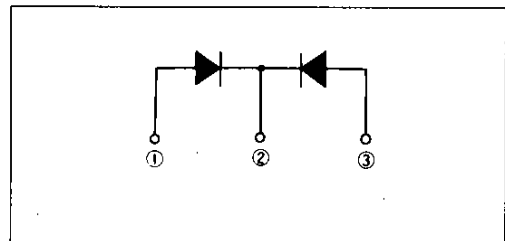
- 低 $V_F$   
Low  $V_F$
- スイッチングスピードが非常に速い  
Super high speed switching.
- プレーナー技術による高信頼性  
High reliability by planer design.

## ■用途：Applications

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

## ■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 | $V_{RRM}$ |                                                           | 200        | V                |
| 平均出力電流<br>Average Output Current              | $I_o$     | 方形波, duty = 1/2, $T_c = 115^\circ\text{C}$<br>Square wave | 20*        | A                |
| サージ電流<br>Surge Current                        | $I_{FSM}$ | 正弦波 Sine wave<br>10ms                                     | 100        | A                |
| 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 | $^\circ\text{C}$ |

\* センタータップ平均出力電流

\* average forward current of centertap full wave connection

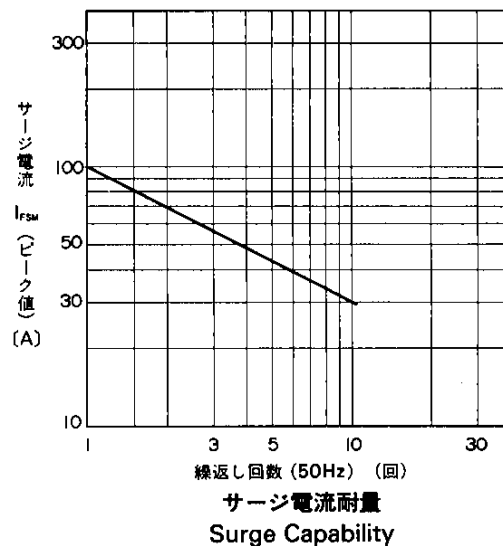
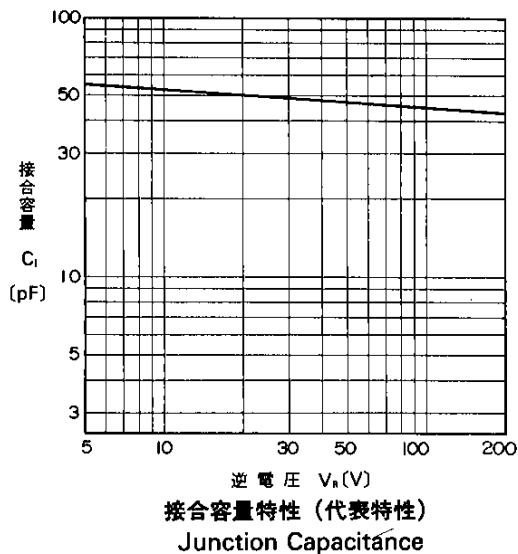
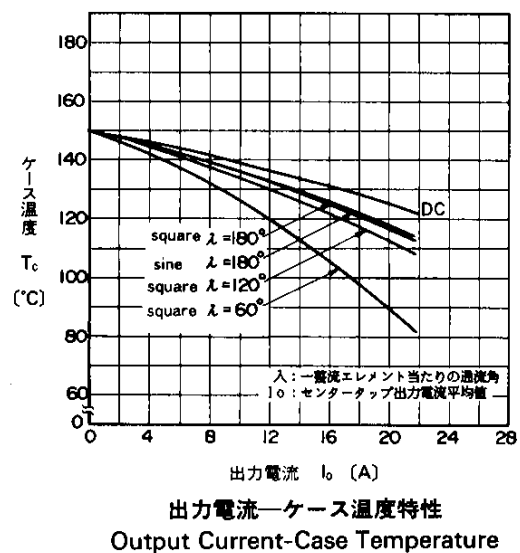
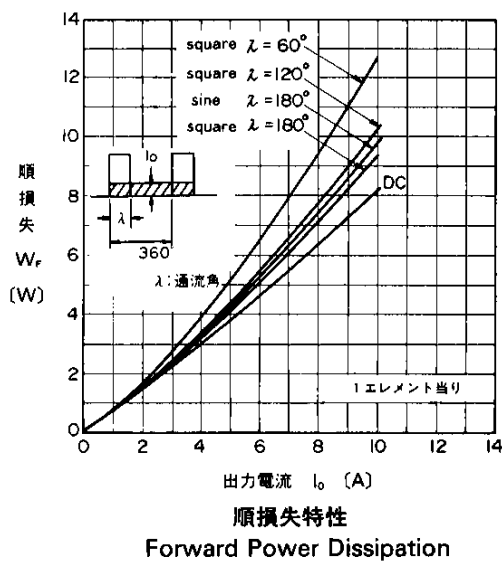
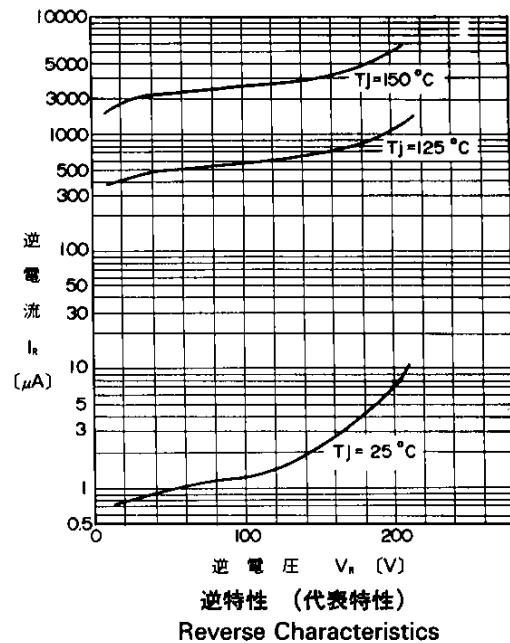
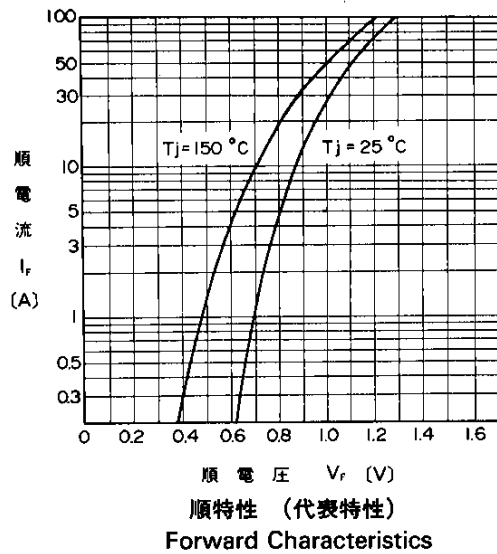
### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

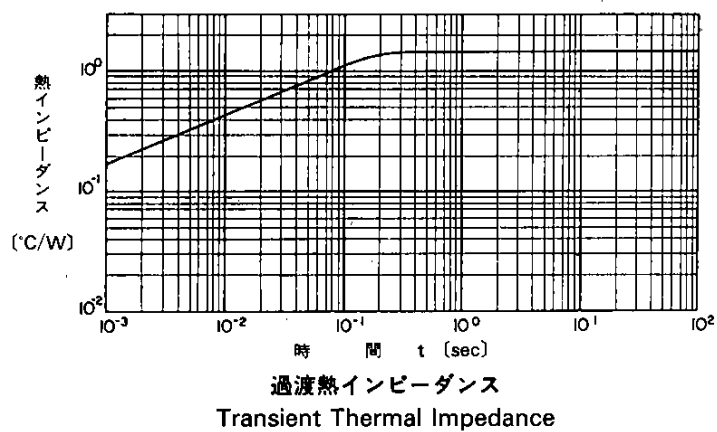
Electrical Characteristics ( $T_a = 25^\circ\text{C}$  Unless otherwise specified)

| Items                          | Symbols       | Conditions                                                           | Max. | Units              |
|--------------------------------|---------------|----------------------------------------------------------------------|------|--------------------|
| 順電圧<br>Forward Voltage Drop    | $V_{FM}$      | $I_{FM} = 10.0\text{A}$                                              | 0.95 | 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 | $t_{rr}$      | $I_F = 0.1\text{A}$ , $I_R = 0.2\text{A}$ , $I_{rec} = 0.05\text{A}$ | 40   | ns                 |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合・ケース間<br>junction to case                                          | 1.5  | $^\circ\text{C/W}$ |

A

## ■特性曲線：Characteristics





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