

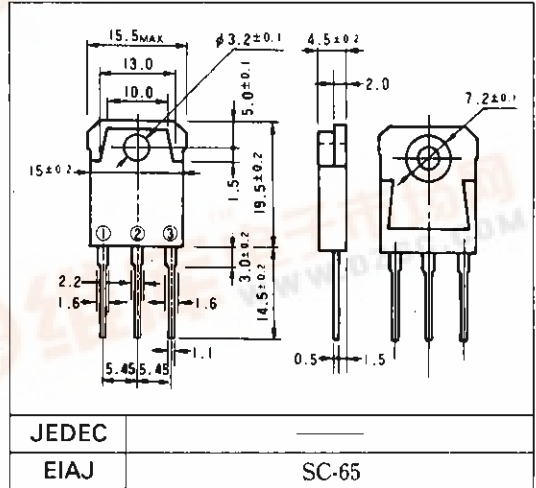
# ESAD85-009(25A)

富士小電力ダイオード

## ショットキーバリアダイオード

### SCHOTTKY BARRIER DIODE

## 外形寸法：Outline Drawings



## 特長：Features

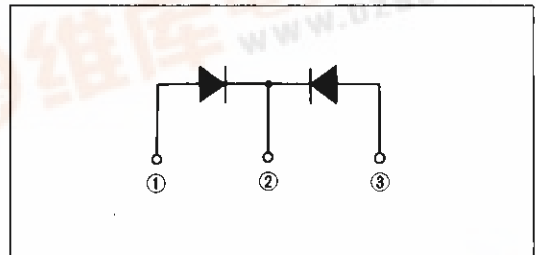
- 低 $V_F$   
Low  $V_F$
- スイッチングスピードが非常に速い  
Super high speed switching.
- プレーナー技術による高信頼性  
High reliability by planer design.

## 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      | $V_{RRM}$ |  | 90         | V          |
| ピーク非繰り返し逆電圧<br>Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ | $tw = 500ns, duty = 1/40$                          | 100        | V          |
| 平均出力電流<br>Average Output Current                   | $I_O$     | 方形波, $duty = 1/2, T_c = 90^\circ C$<br>Square wave | 25*        | A          |
| サージ電流<br>Surge Current                             | $I_{FSM}$ | 正弦波 Sine Wave<br>10ms                              | 150        | A          |
| 接合温度<br>Operating Junction Temperature             | $T_J$     |  | -40 ~ +125 | $^\circ C$ |
| 保存温度<br>Storage Temperature                        | $T_{stg}$ |  | -40 ~ +125 | $^\circ C$ |

\*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 $T_a = 25^\circ C$ とする)

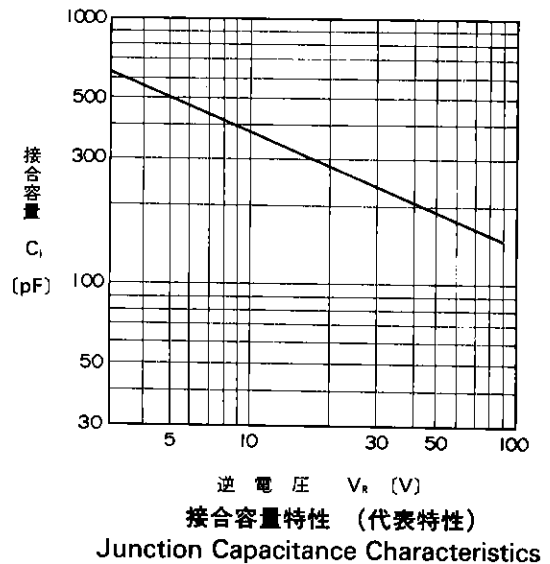
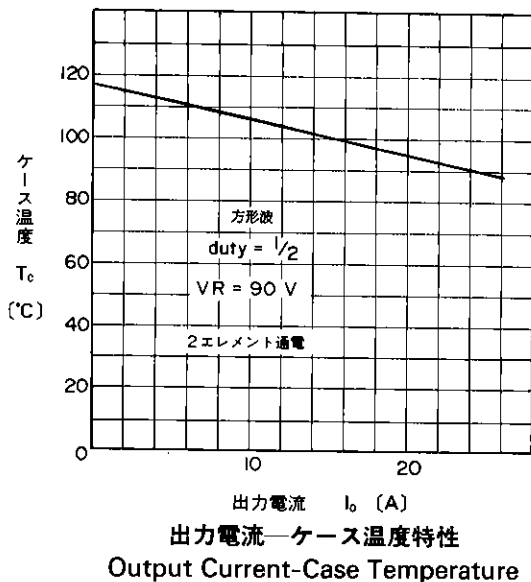
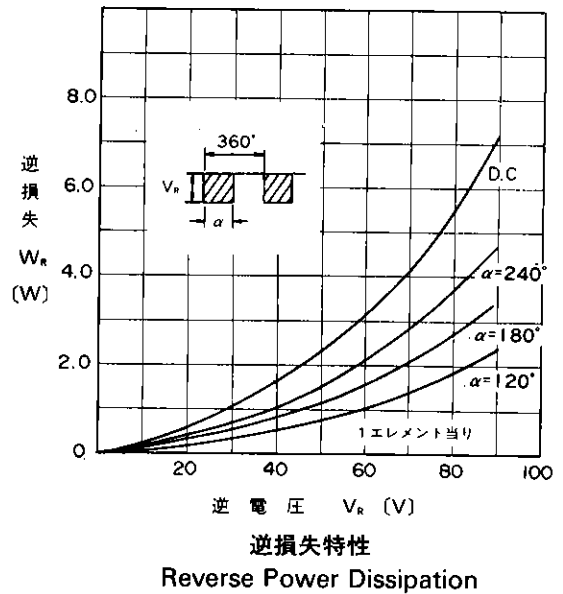
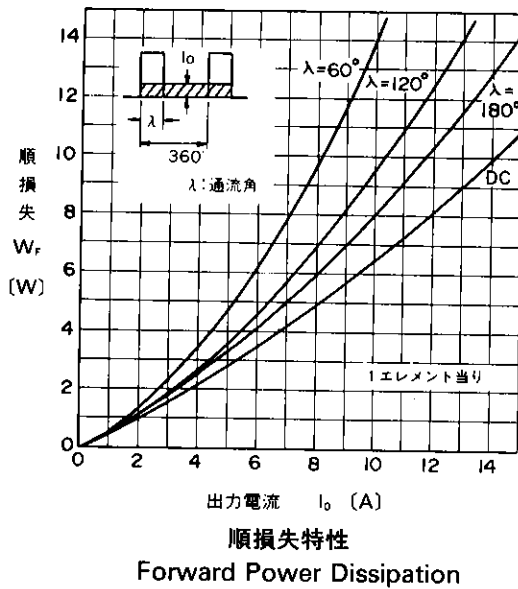
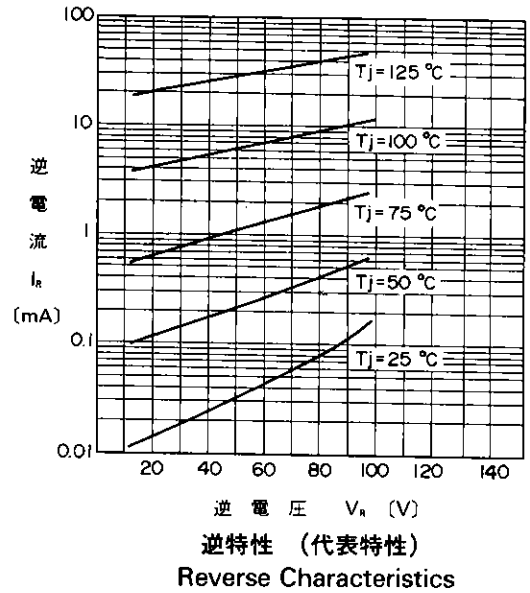
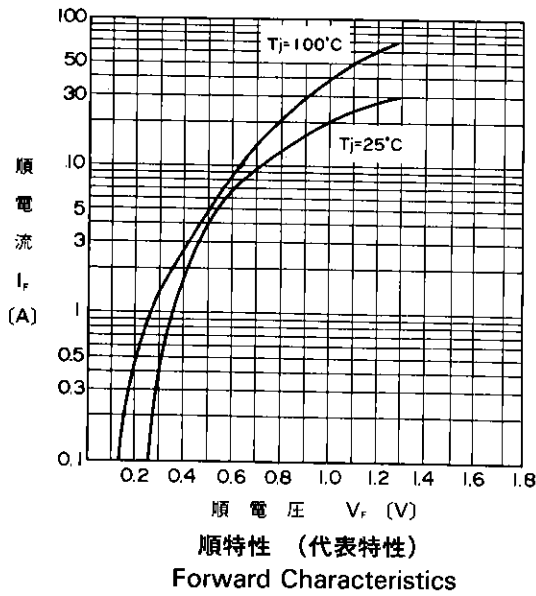
Electrical Characteristics ( $T_a = 25^\circ C$  Unless otherwise specified)

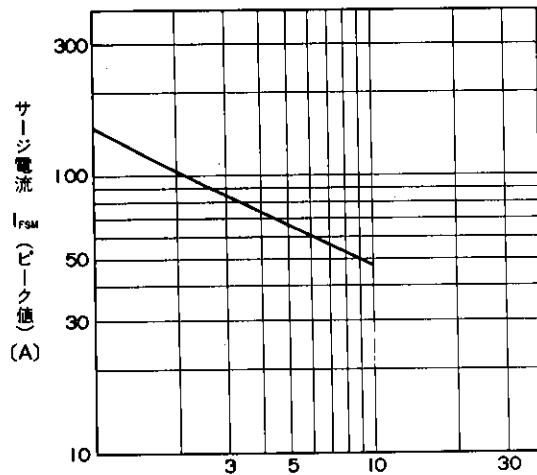
| Items                       | Symbols       | Conditions                  | Max. | Units        |
|-----------------------------|---------------|-----------------------------|------|--------------|
| 順電圧<br>Forward Voltage Drop | $V_{FM}$      | $I_{FM} = 10A$              | 0.9  | V            |
| 逆電流<br>Reverse Current      | $I_{RRM}$     | $V_R = V_{RRM}$             | 20   | mA           |
| 熱抵抗<br>Thermal Resistance   | $R_{th(j-c)}$ | 接合・ケース間<br>junction to case | 1.2  | $^\circ C/W$ |



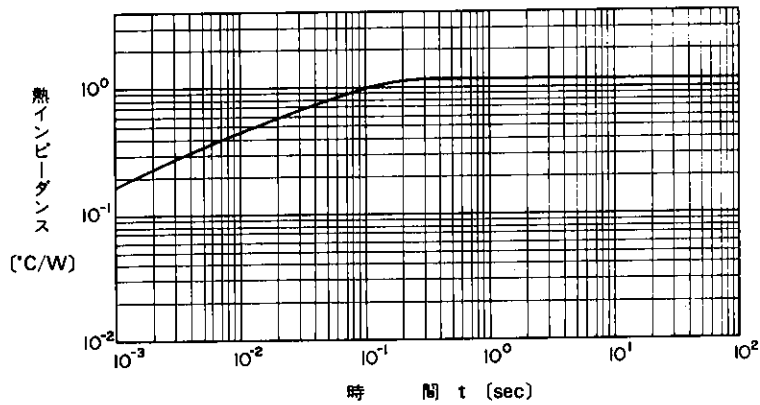
■特性曲線：Characteristics

A





繰返し回数 (50Hz)(回)  
**サージ電流耐量**  
**Surge Capability**



時間 t (sec)  
**過渡熱インピーダンス**  
**Transient Thermal Impedance**

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