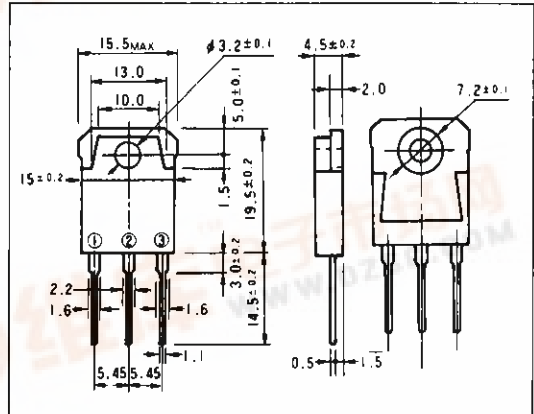


# ESAD25(C,N,D)(15A) 富士小電力ダイオード

## 高速整流ダイオード

### FAST RECOVERY DIODE

## ■外形寸法：Outline Drawings



|       |       |
|-------|-------|
| JEDEC |       |
| EIAJ  | SC-65 |

## ■特長：Features

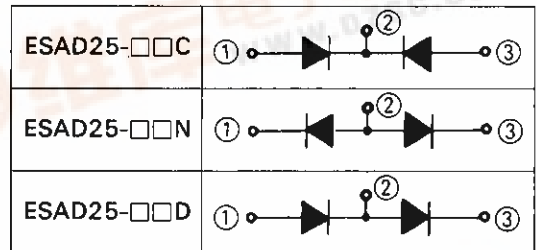
- メサ形のため耐圧が高い  
High voltage by mesa design.
- 高信頼性  
High reliability

## ■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            |
|--|-----------|---|------------|-----|------------------|
|  |           |   | -02        | -04 |                  |
| ピーク繰り返し逆電圧<br>Repetitive Peak Reverse Voltage      | $V_{RRM}$ |   | 200        | 400 | V                |
| ピーク非繰り返し逆電圧<br>Non-Repetitive Peak Reverse Voltage | $V_{RSM}$ |   | 250        | 450 | 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 | 15*        |     | 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                            | 120        |     | 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)

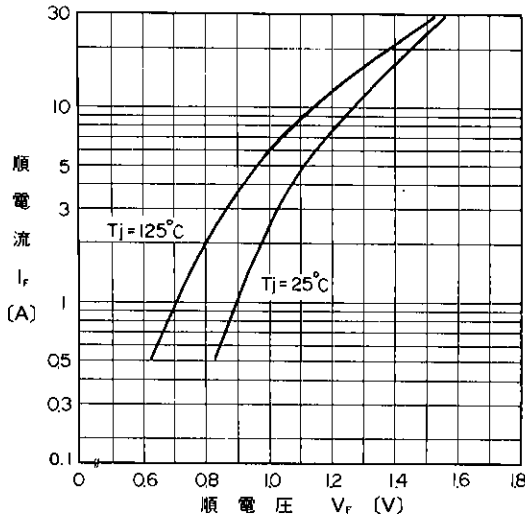
| Items                          | Symbols       | Conditions                             | Max. | Units              |
|--------------------------------|---------------|--|------|--------------------|
| 順電圧<br>Forward Voltage Drop    | $V_{FM}$      | $I_{FM} = 8.0\text{A}$                 | 1.3  | V                  |
| 逆電流<br>Reverse Current         | $I_{RRM}$     | $V_R = V_{RRM}$                        | 0.1  | mA                 |
| 逆回復時間<br>Reverse Recovery Time | $t_{rr}$      | $I_F = 0.1\text{A}, I_R = 0.1\text{A}$ | 0.4  | $\mu\text{s}$      |
| 熱抵抗<br>Thermal Resistance      | $R_{th(j-c)}$ | 接合・ケース間 平滑直流<br>junction to case       | 2.0  | $^\circ\text{C/W}$ |

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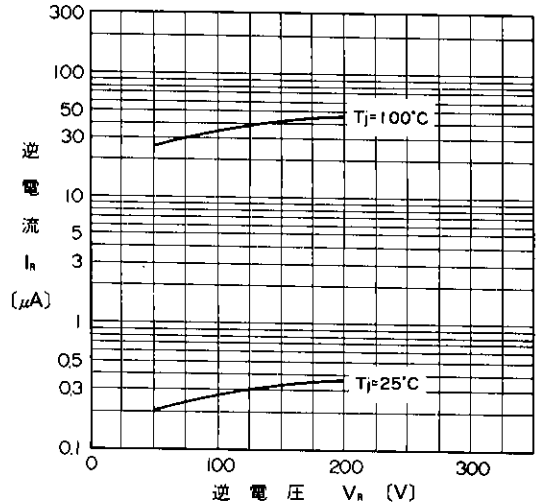


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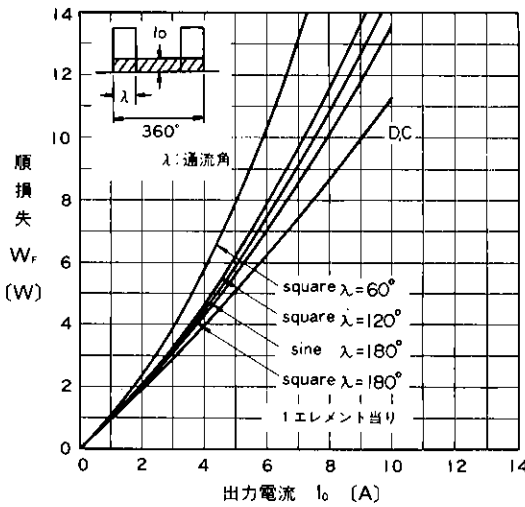
■特性曲線：Characteristics



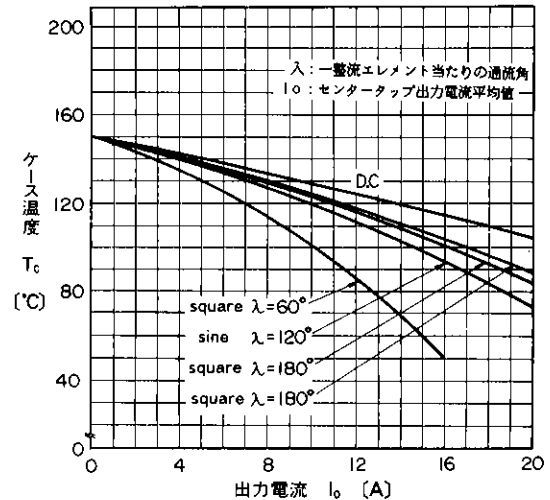
順特性 (代表特性)  
Forward Characteristics



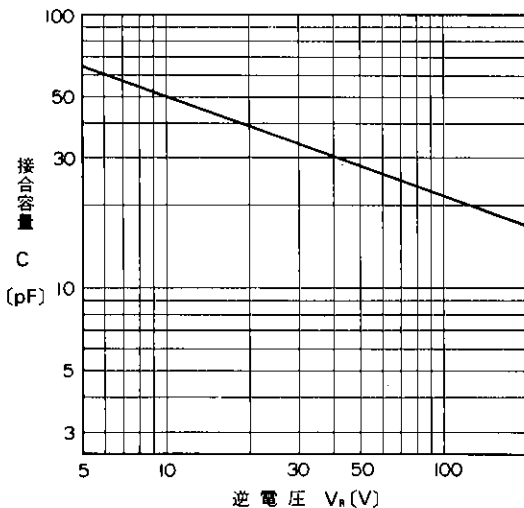
逆特性 (代表特性)  
Reverse Characteristics



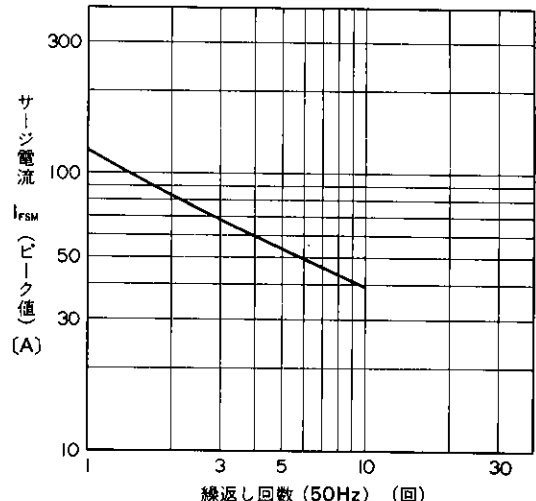
順損失特性  
Forward Power Dissipation



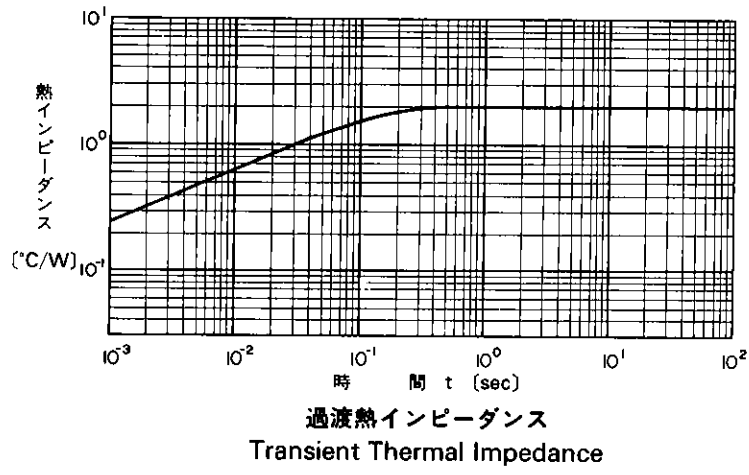
出力電流-ケース温度特性  
Output Current-Case Temperature



接合容量特性(代表特性)  
Junction Capacitance Characteristics



サージ電流耐量  
Surge Capability



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