

高速整流ダイオード

FAST RECOVERY DIODE

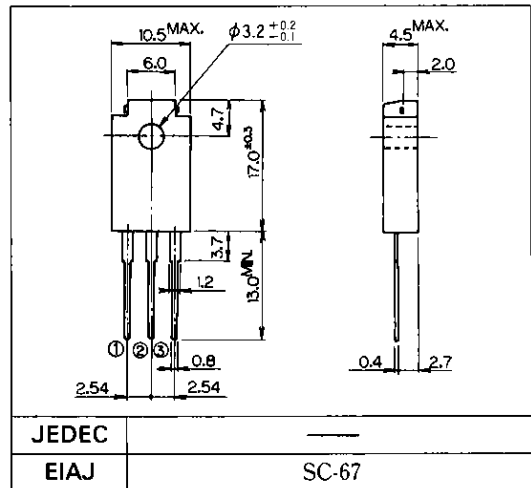
■特長：Features

- 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.
- 逆回復波形がソフトなためノイズが低い
Soft recovery, low noise.
- 高信頼性
High reliability

■用途：Applications

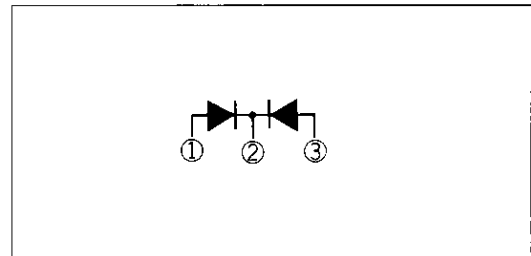
- 高速電力スイッチング
High speed power switching.

■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 |
|--|-----------|---|------------|------------------|
| | | | -02 | |
| ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | | 200 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | | 200 | V |
| 平均出力電流 Average Output Current | I_o | 方形波, duty = 1/2, $T_c = 110^\circ\text{C}$ Square wave | 5* | A |
| サージ電流 Surge Current | I_{FSM} | 正弦波 Sine wave 10ms | 30 | Ap |
| 接合温度 Operating Junction Temperature | T_j | | -40 ~ +150 | $^\circ\text{C}$ |
| 保存温度 Storage Temperature | T_{stg} | | -40 ~ +150 | $^\circ\text{C}$ |

*センタータップ平均出力電流

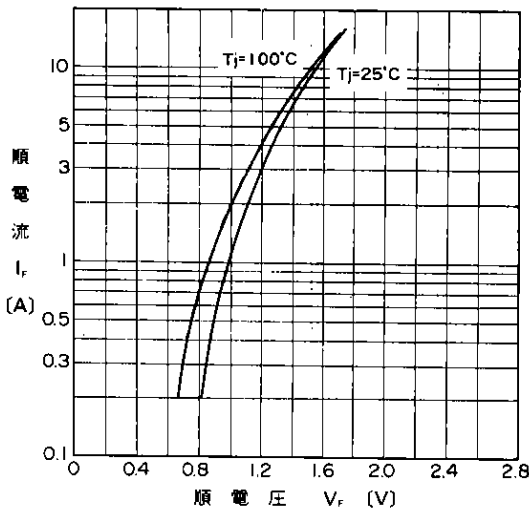
* average forward current of centertap full wave connection

●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)

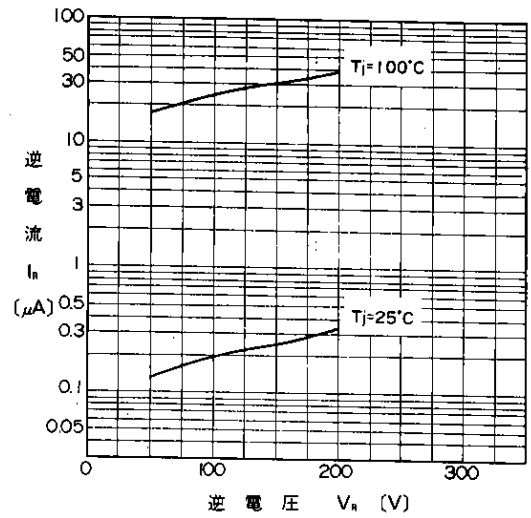
Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

| Items | Symbols | Conditions | Max. | Units |
|--------------------------------|---------------|--|------|--------------------|
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM} = 2.5\text{A}$ | 1.4 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R = V_{RRM}$ | 100 | μA |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_F = 0.1\text{A}, I_R = 0.1\text{A}$ | 100 | ns |
| | | $I_F = 0.1\text{A}, I_R = 0.2\text{A}, I_{rec} = 0.05\text{A}$ | 45 | |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合・ケース間 junction to case | 5.0 | $^\circ\text{C/W}$ |

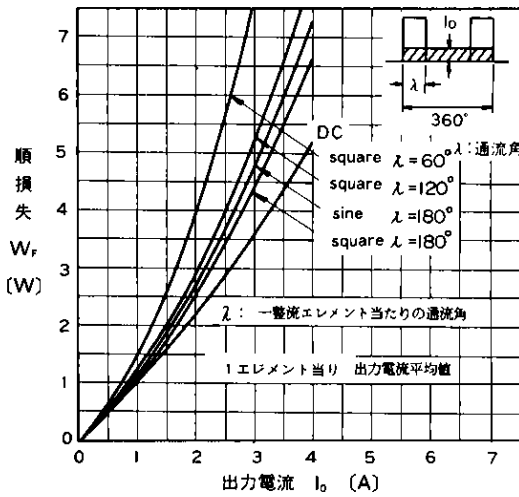
■特性曲線 : Characteristics



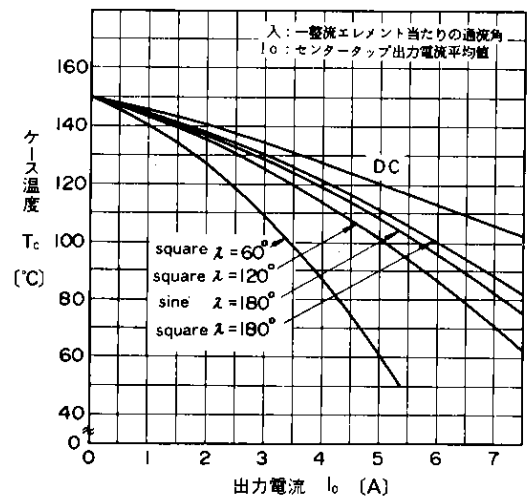
順特性 (代表特性)
Forward Characteristics



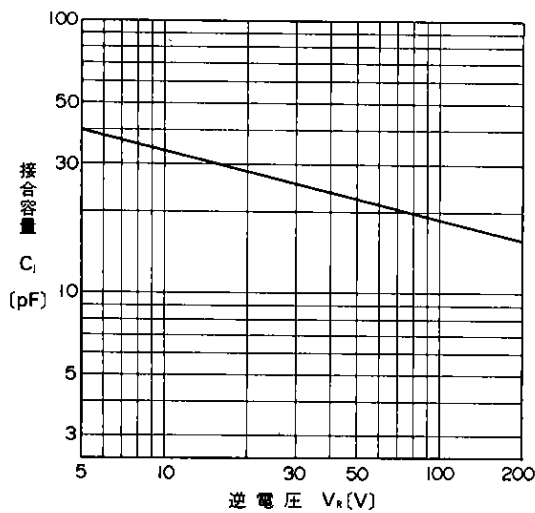
逆特性 (代表特性)
Reverse Characteristics



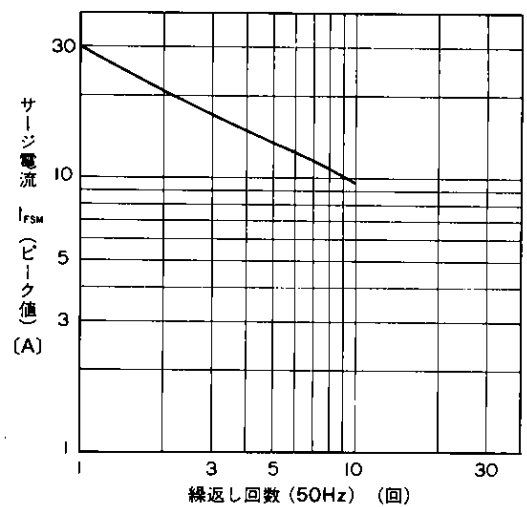
順損失特性
Forward Power Dissipation



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

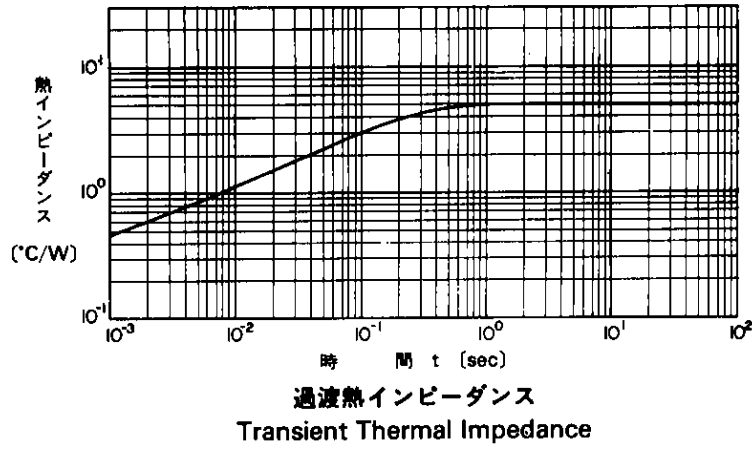


接合容量特性 (代表特性)
Junction Capacitance



サージ電流耐量
Surge Capability

A



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