

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

■特長：Features

- 面実装品
Surface mount device.
- 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.

■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 Repetitive Peak Reverse Voltage | V_{RRM} | | 40 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | $tw = 500ns, duty = \frac{1}{10}$ | 48 | V |
| 平均出力電流 Average Output Current | I_O | 方形波, $duty = \frac{1}{2}, T_c = 87^\circ C$ Square wave | 5.0* | A |
| サージ電流 Surge Current | I_{FSM} | 正弦波 Sine wave 10ms | 60 | A |
| 接合温度 Operating Junction Temperature | T_j | | -40 ~ +125 | $^\circ C$ |
| 保存温度 Storage Temperature | T_{stg} | | -40 ~ +125 | $^\circ C$ |

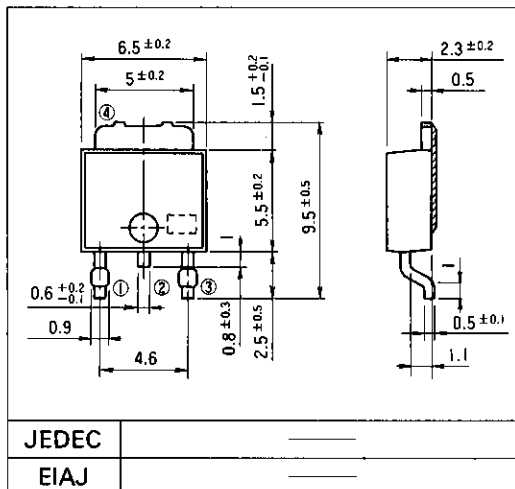
*センタータップ平均出力電流
* average forward current of centertap full wave connction

●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)

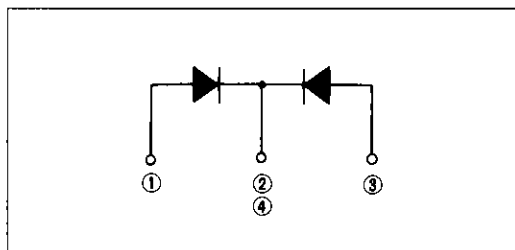
| Items | Symbols | Conditions | Max. | Units |
|-----------------------------|---------------|-----------------------------|------|--------------|
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM} = 2.5A$ | 0.55 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R = V_{RRM}$ | 5 | mA |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合・ケース間 Junction to case | 10 | $^\circ C/W$ |

■外形寸法：Outline Drawings



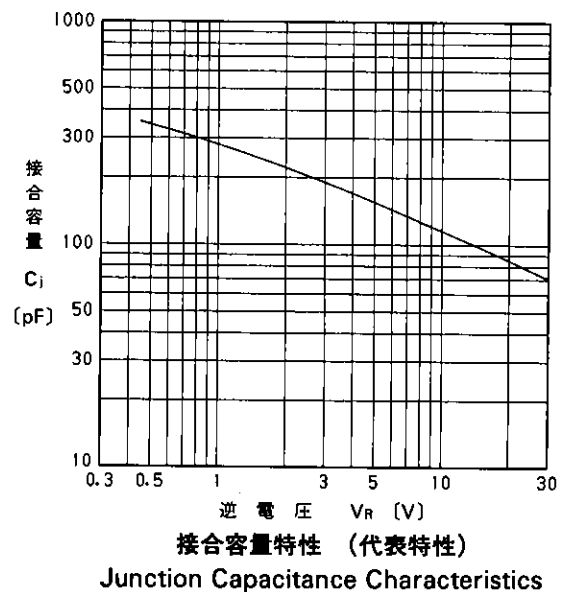
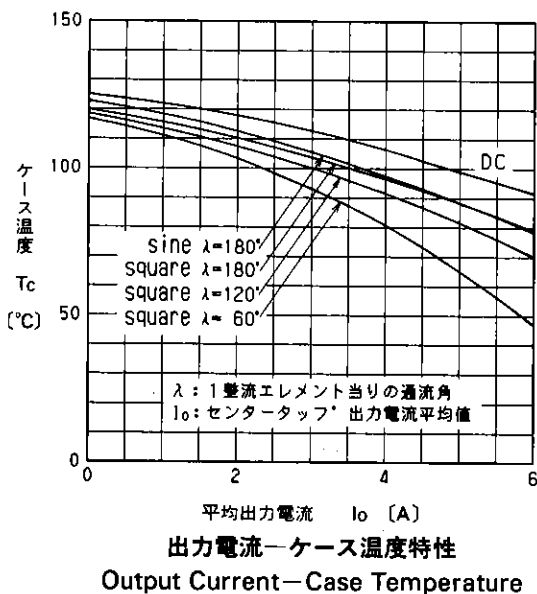
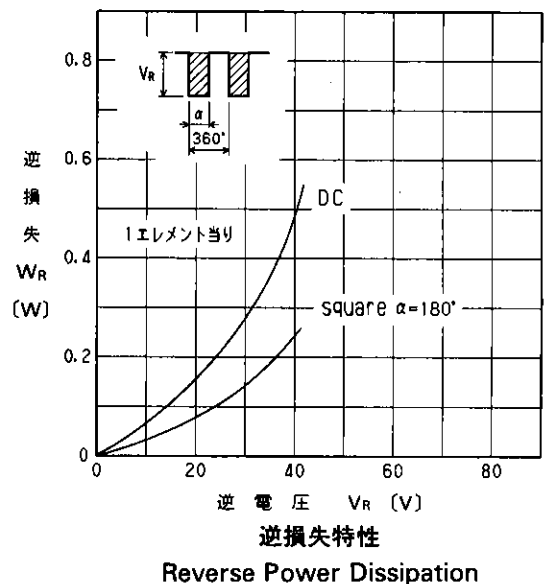
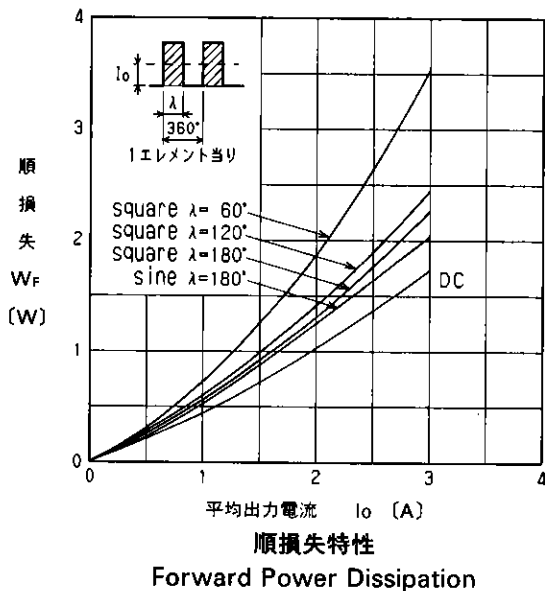
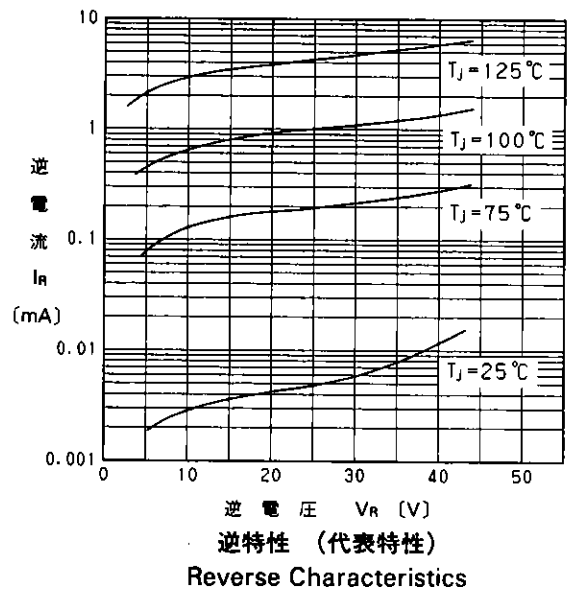
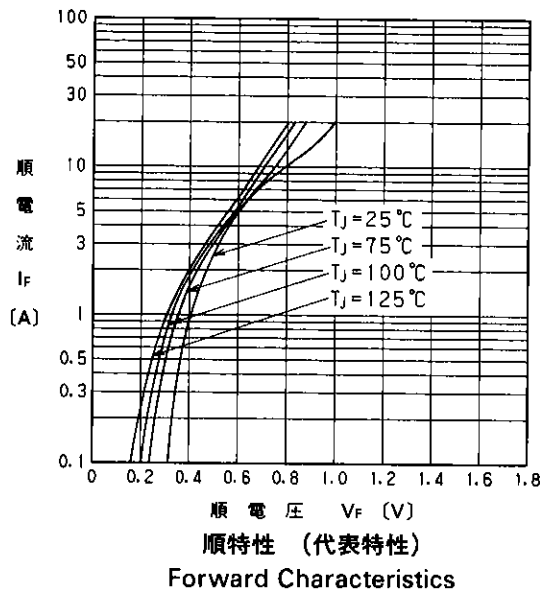
■電極接続

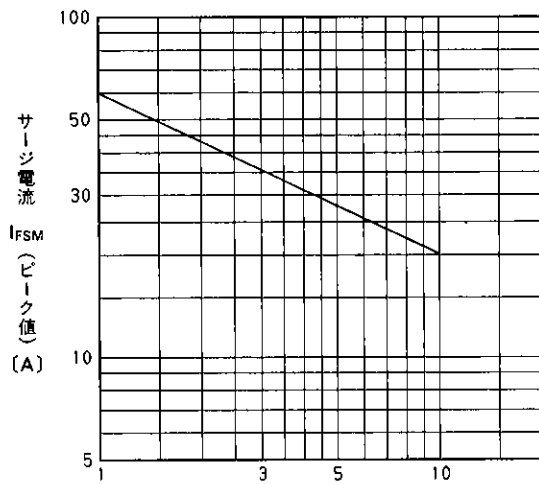
Connection Diagram



■特性曲線：Characteristics

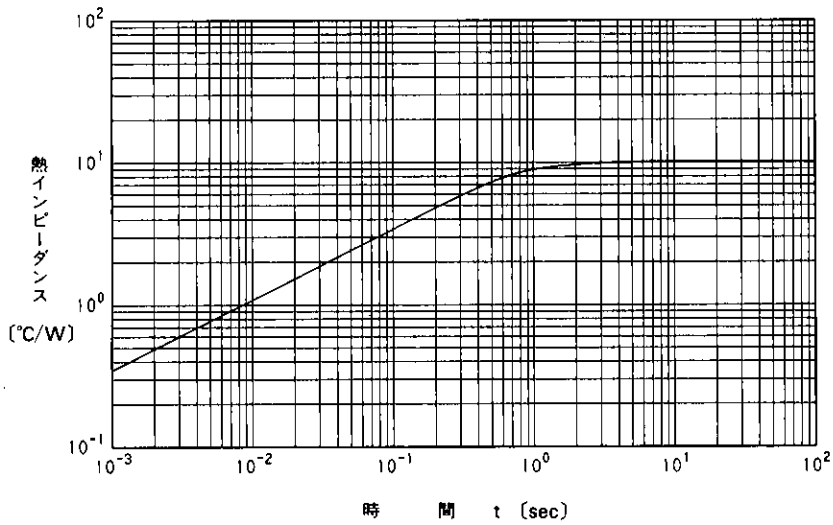
A





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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