

ショットキーバリアダイオード

SCHOTTKY BARRIER 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.
- 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} | | 60 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | | 60 | V |
| 絶縁耐圧 Isolating Voltage | V_{ISO} | 一括端子・ケース間、AC1分間印加 Terminals-to-Case, AC, 1 min. | 1500 | V |
| 平均出力電流 Average Output Current | I_O | 方形波, duty=1/2, $T_c=92^\circ\text{C}$ Square wave | 10* | A |
| サージ電流 Surge Current | I_{FSM} | 正弦波 Sine wave 10ms 定格負荷状態より | 80 | A |
| 接合温度 Operating Junction Temperature | T_j | | -40 ~ +125 | $^\circ\text{C}$ |
| 保存温度 Storage Temperature | T_{SIG} | | -40 ~ +125 | $^\circ\text{C}$ |

●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)

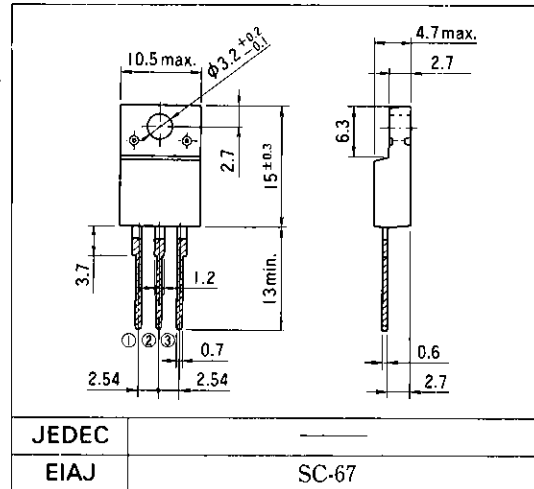
Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| Items | Symbols | Conditions | Max. | Units |
|-----------------------------|-------------------|-----------------------------|------|---------------------------|
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM}=4\text{A}$ | 0.58 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R=V_{RRM}$ | 5.0 | mA |
| 熱抵抗 Thermal Resistance | $R_{\theta(j-c)}$ | 接合・ケース間 Junction to case | 3.5 | $^\circ\text{C}/\text{W}$ |

*センタータップ平均出力電流

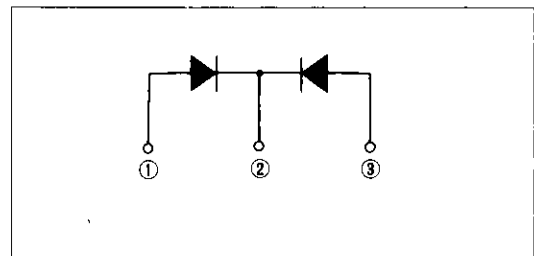
* average forward current of centertap full wave connection

■外形寸法 : Outline Drawings



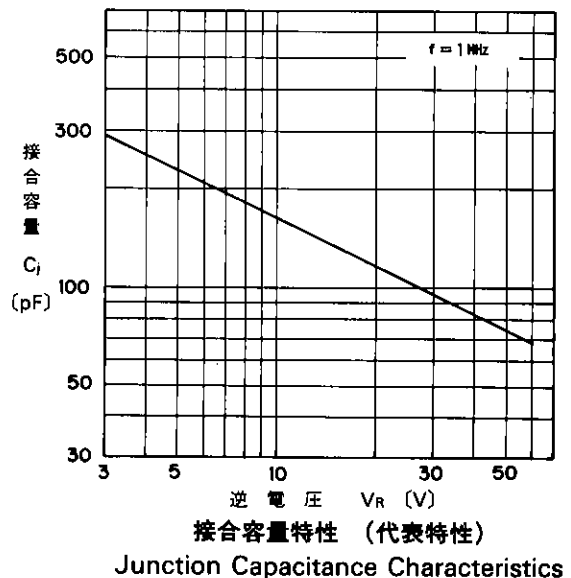
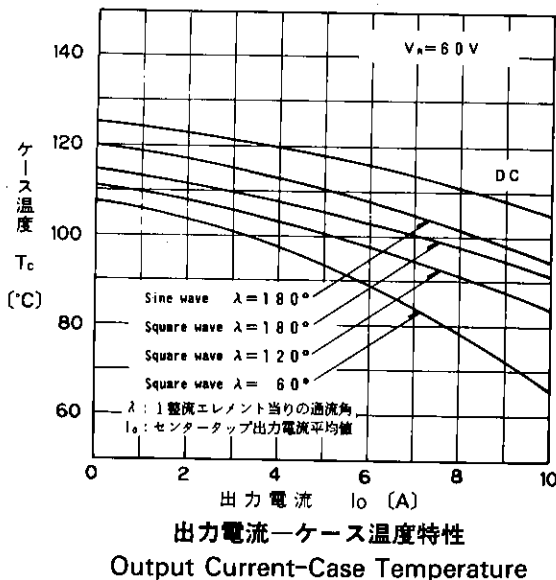
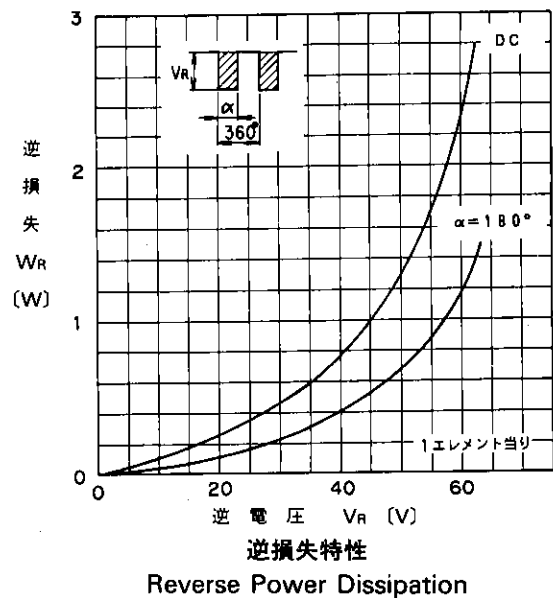
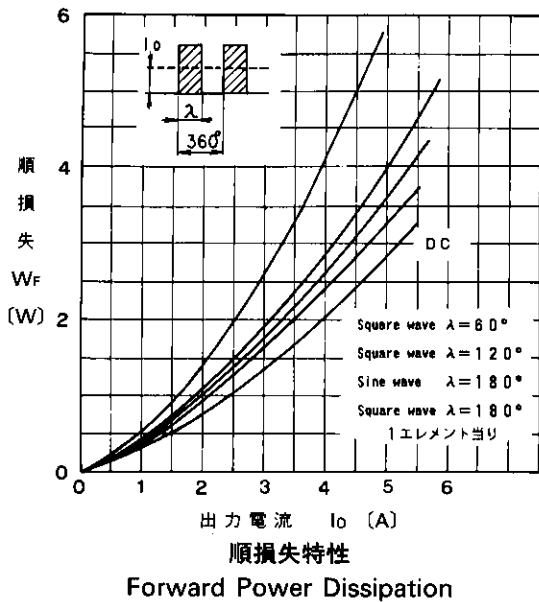
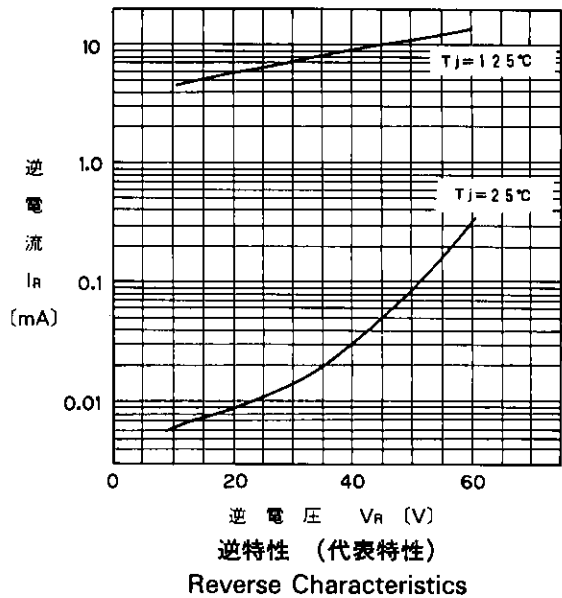
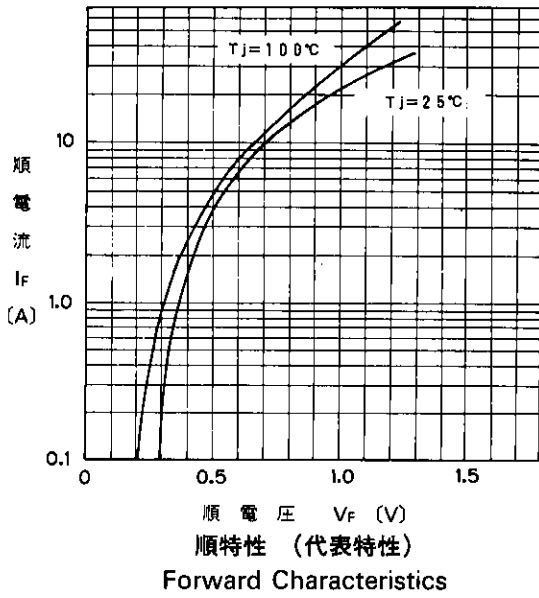
■電極接続

Connection Diagram

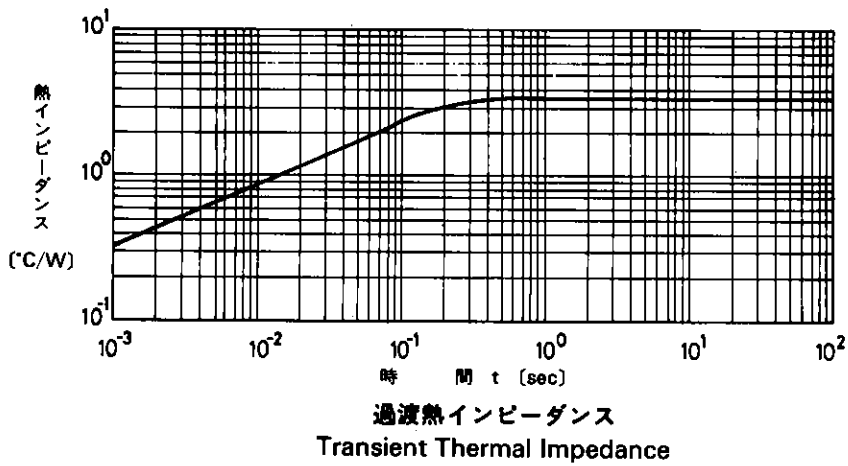
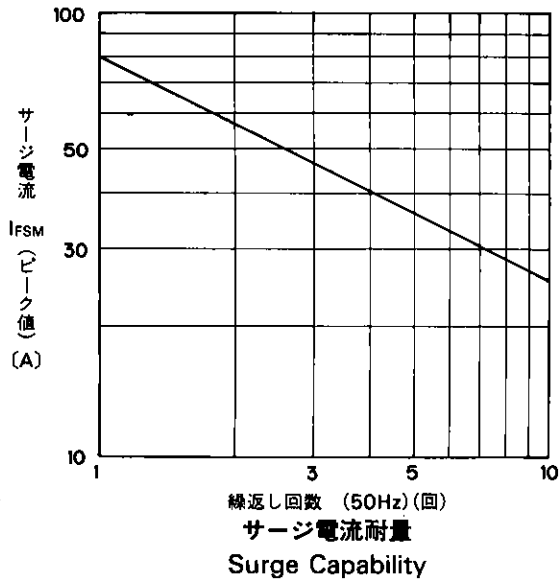


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■特性曲線：Characteristics



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