

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

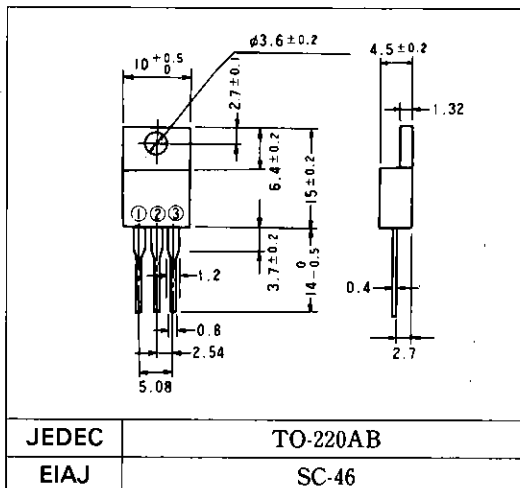
■特長：Features

- 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

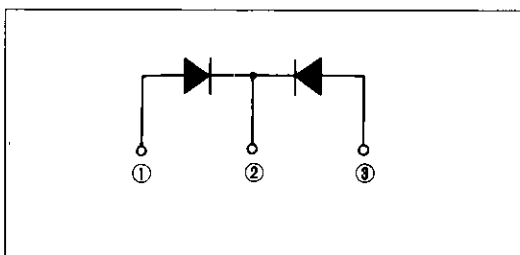
- 高速電力スイッチング
High speed power switching.

■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 |
|--|-----------|--|------------|------------|
| ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | | 90 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | $tw = 500ns, duty = 1/10$ | 100 | V |
| 平均出力電流 Average Output Current | I_o | 方形波, $duty = 1/2, T_c = 95^\circ C$ 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 connection

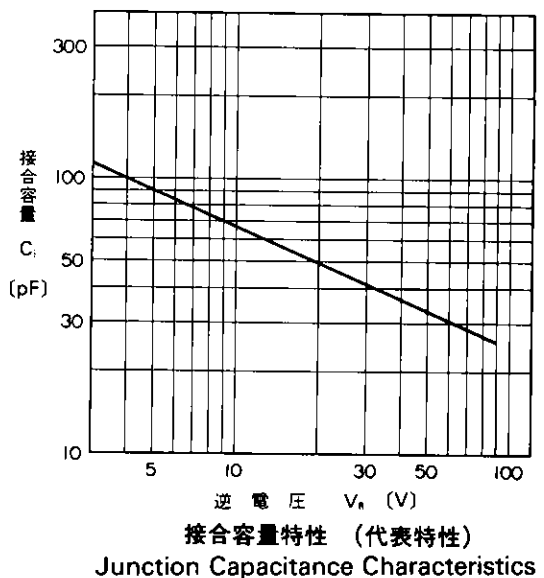
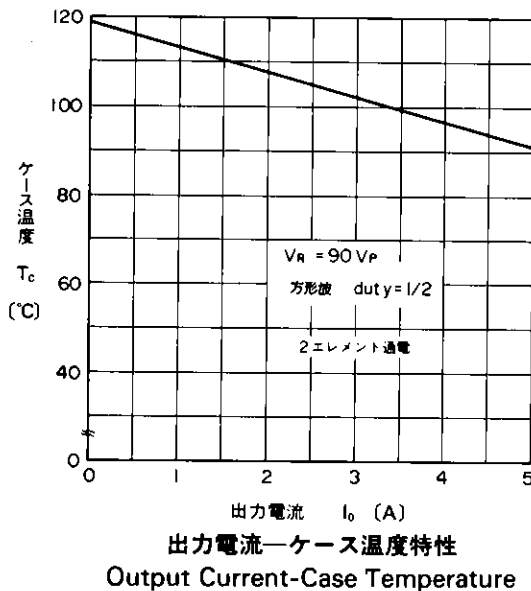
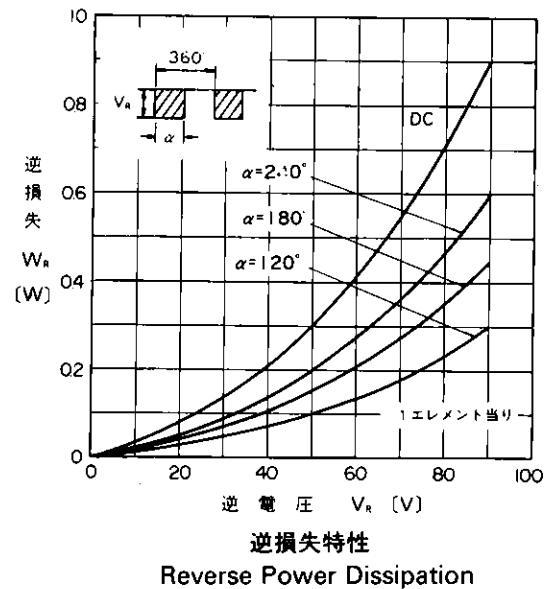
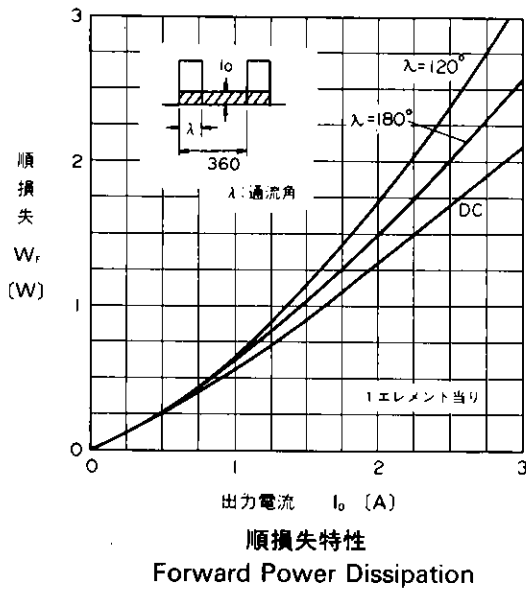
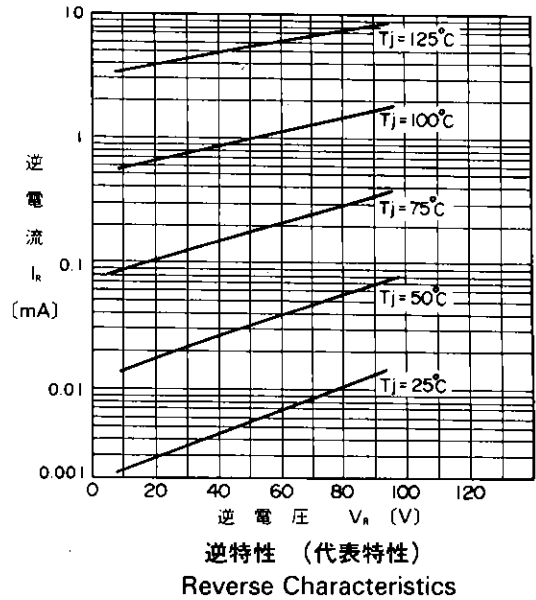
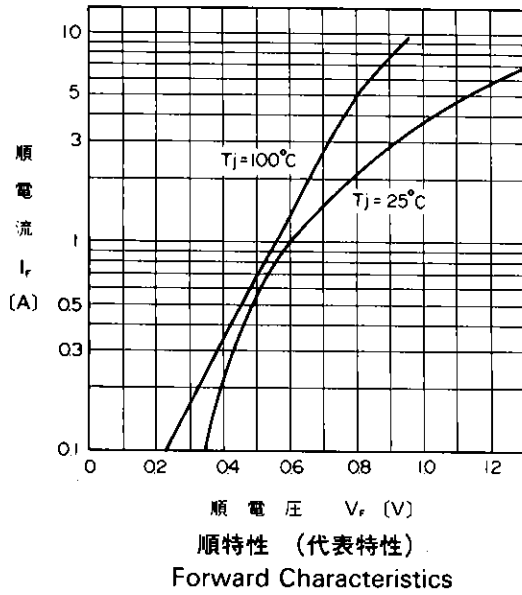
●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ C$ とする)

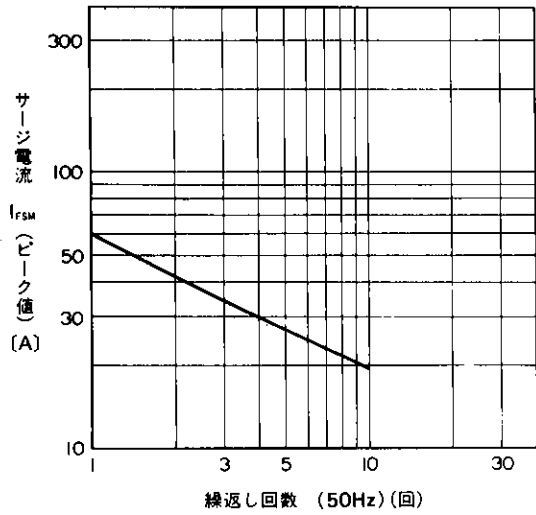
Electrical Characteristics ($T_a = 25^\circ C$ Unless otherwise specified)

| Items | Symbols | Conditions | Max. | Units |
|-----------------------------|---------------|-----------------------------|------|--------------|
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM} = 2.0A$ | 0.9 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R = V_{RRM}$ | 2.0 | mA |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合・ケース間 Junction to case | 5.0 | $^\circ C/W$ |

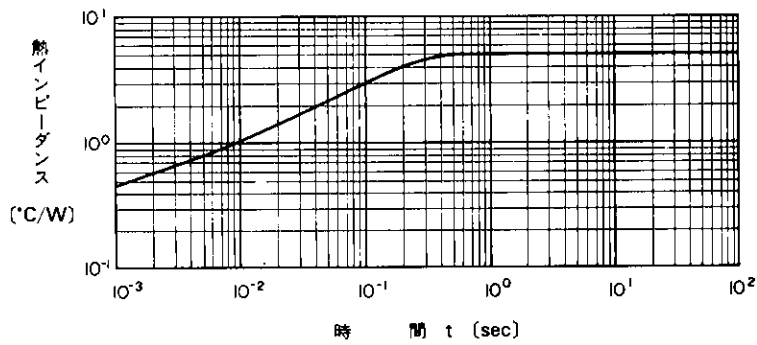
A

■特性曲線：Characteristics





サージ電流耐量
Surge Capability



過渡熱インピーダンス
Transient Thermal Impedance

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