

高速整流ダイオード

FAST RECOVERY DIODE

■特長：Features

- 高品位TV, 高精細度ディスプレイ用ダンパー
Damper diode for high definition TV and high resolution display.
- ダンパーとモジュレータダイオードの複合化
Damper and modulator diode are jointed in a body.
- 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.
- 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

- 水平偏向回路
Horizontal deflection circuit.

■定格と特性：Maximum Ratings and Characteristics

●絶対最大定格：Absolute Maximum Ratings

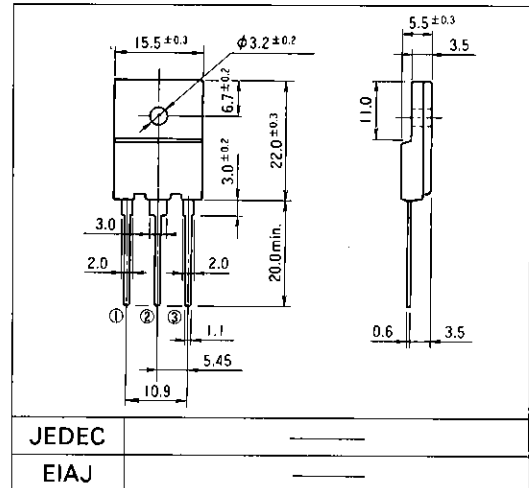
| Items | Symbols | Conditions | Ratings | | Units |
|--|-----------|--|------------|------|------------------|
| | | | ①~② | ②~③ | |
| ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | | 600 | 1500 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | | 600 | 1500 | V |
| 平均出力電流 Average Output Current | I_O | 方形波, duty = 1/2, $T_c = 90^\circ\text{C}$ Square wave | 5.0 | | A |
| サージ電流 Surge Current | I_{FSM} | 正弦波 Sine wave 10ms 定格負荷状態より | 50 | 50 | A |
| 接合温度 Operating Junction Temperature | T_j | | -40 ~ +150 | | $^\circ\text{C}$ |
| 保存温度 Storage Temperature | T_{stg} | | -40 ~ +150 | | $^\circ\text{C}$ |

●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)

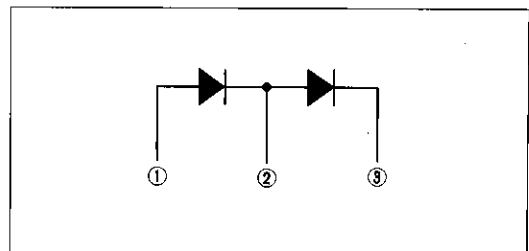
| Items | Symbols | Conditions | Max. | | Units |
|--------------------------------|---------------|--|------|-----|---------------------------|
| | | | ①~② | ②~③ | |
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM} = 4\text{A}$ | 3.0 | 1.6 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R = V_{RRM}$ | 100 | 10 | μA |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_{FM} = 0.1\text{A}$, $I_{RRM} = 0.1\text{A}$ | 0.15 | 2.2 | μs |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合・ケース間 Junction to case | 2.5 | | $^\circ\text{C}/\text{W}$ |

■外形寸法：Outline Drawings



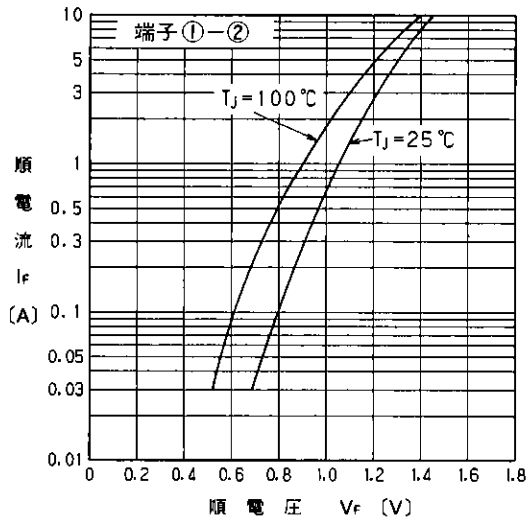
■電極接続

Connection Diagram

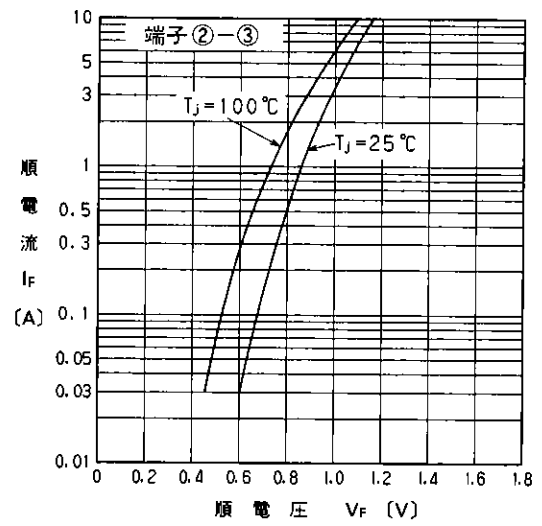


■特性曲線：Characteristics

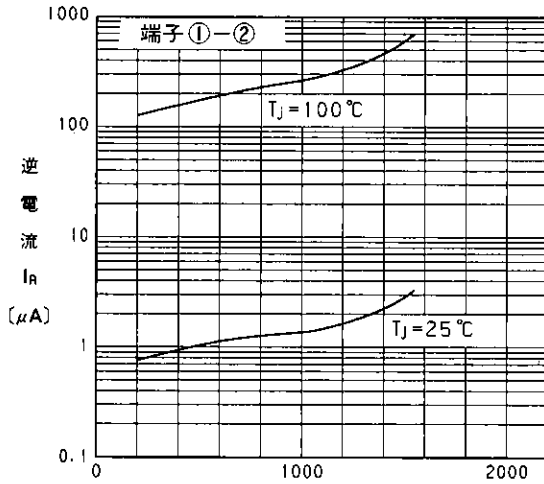
A



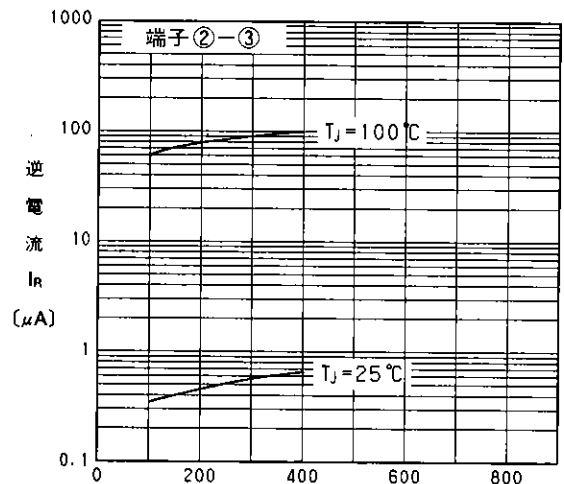
順特性 (代表特性)
Forward Characteristics



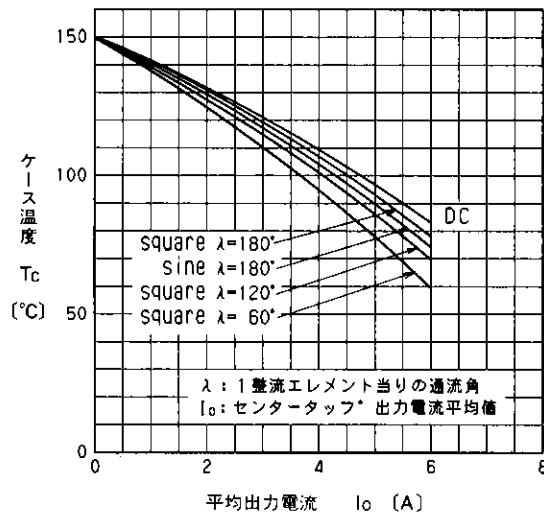
順特性 (代表特性)
Forward Characteristics



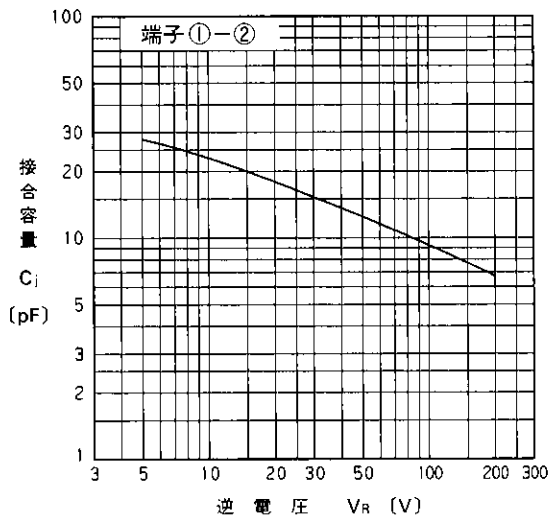
逆特性 (代表特性)
Reverse Characteristics



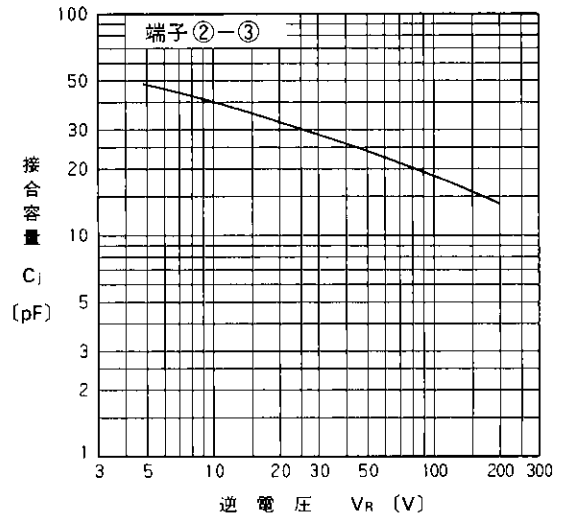
逆特性 (代表特性)
Reverse Characteristics



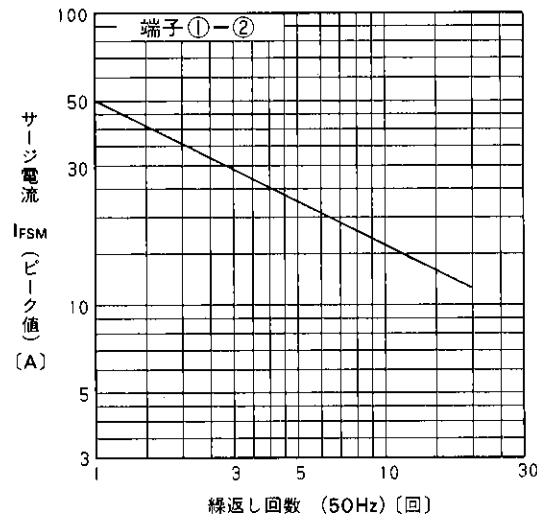
出力電流—ケース温度特性
Output Current—Case Temperature



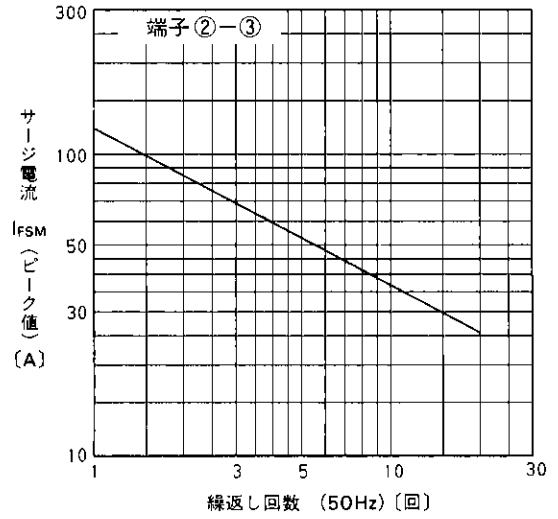
接合容量特性 (代表特性)
Junction Capacitance Characteristics



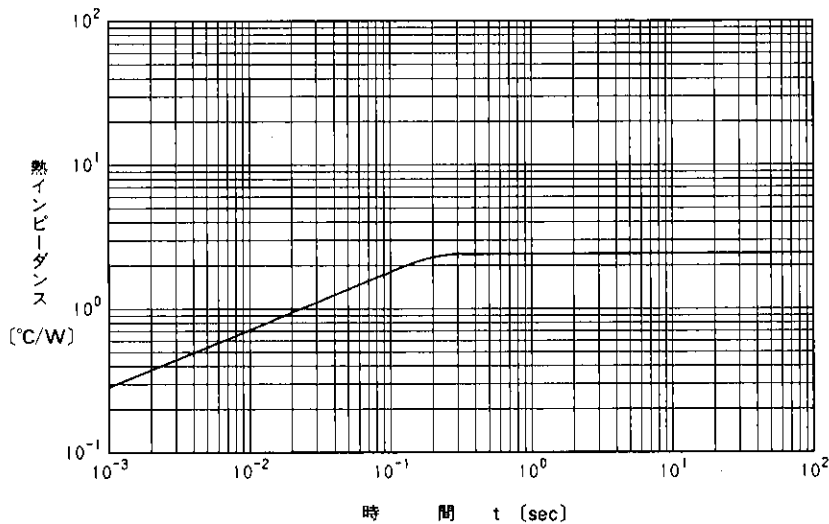
接合容量特性 (代表特性)
Junction Capacitance Characteristics



サージ電流耐量
Surge Capability



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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