

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

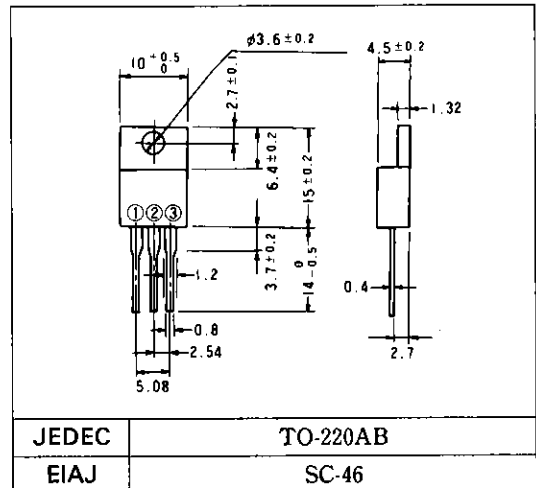
■特長 : Features

- 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

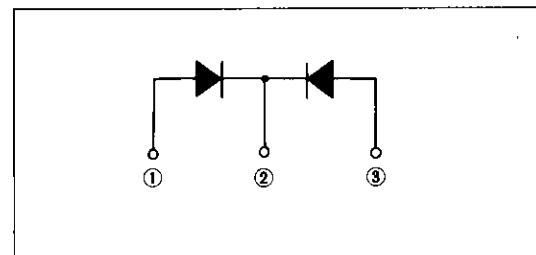
- 高速電力スイッチング
High speed power switching.

■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}		40	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500\text{ns}$ $\text{duty} = \frac{1}{40}$	48	V
平均出力電流 Average Output Current	I_o	方形波, $\text{duty} = \frac{1}{2}$, $T_c = 103^\circ\text{C}$ 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	100	A
接合温度 Operating Junction Temperature	T_j		-40 ~ +125	$^\circ\text{C}$
保存温度 Storage Temperature	T_{stg}		-40 ~ +125	$^\circ\text{C}$

*センタータップ平均出力電流

*average forward current of centertap full wave connection

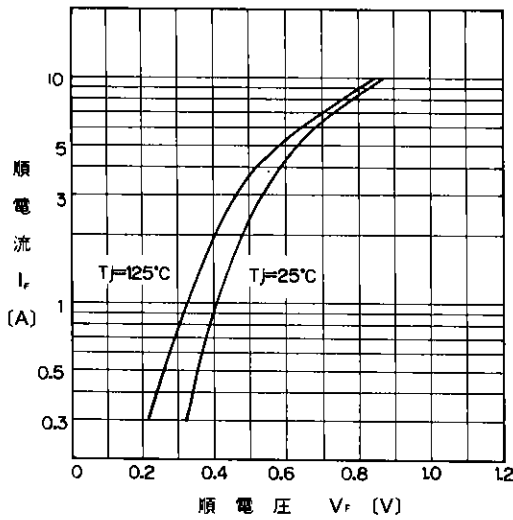
●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

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

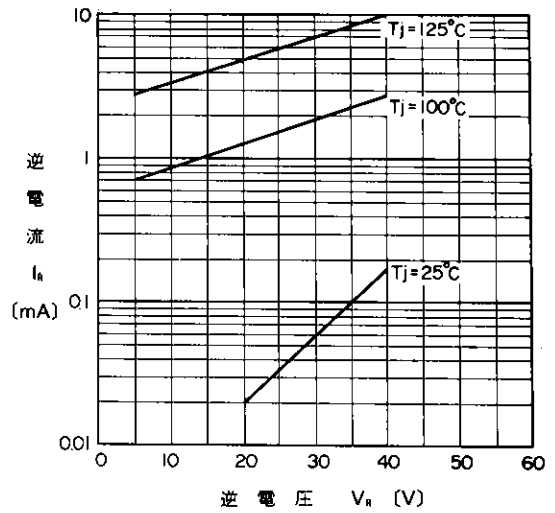
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	$I_{FM} = 2.0\text{A}$	0.55	V
逆電流 Reverse Current	I_{RRM}	$V_R = V_{RRM}$	5.0	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 平滑直流 junction to case	5.0	$^\circ\text{C}/\text{W}$

A

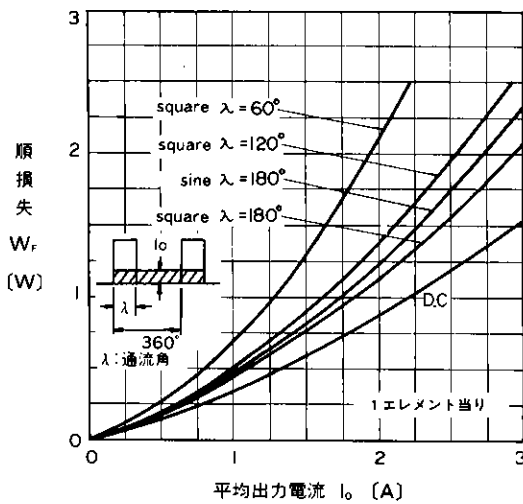
■特性曲線：Characteristics



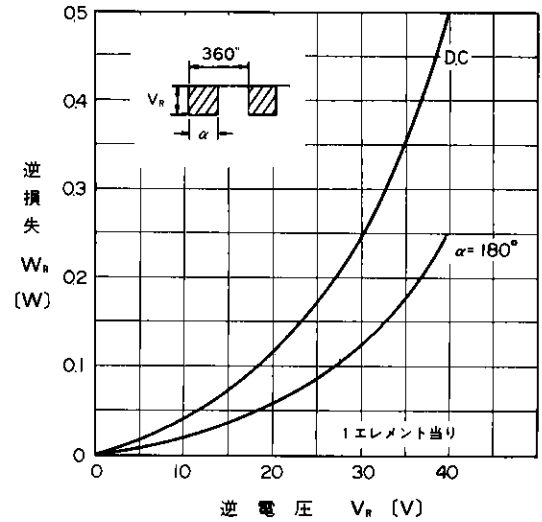
順特性 (代表特性)
Forward Characteristics



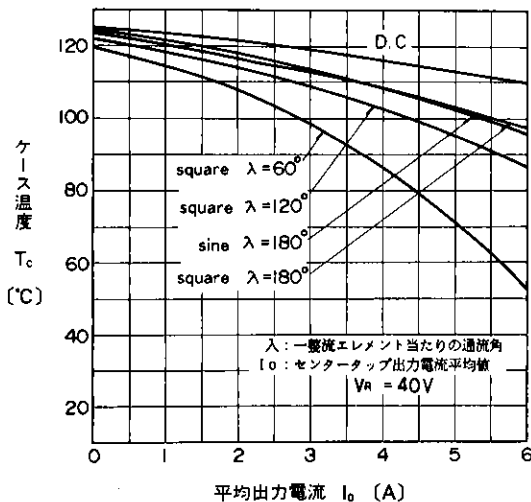
逆特性 (代表特性)
Reverse Characteristics



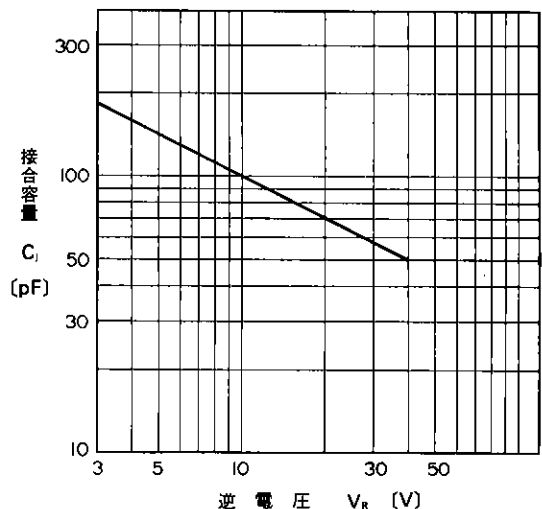
順損失特性
Forward Power Dissipation



逆損失特性
Reverse Power Dissipation

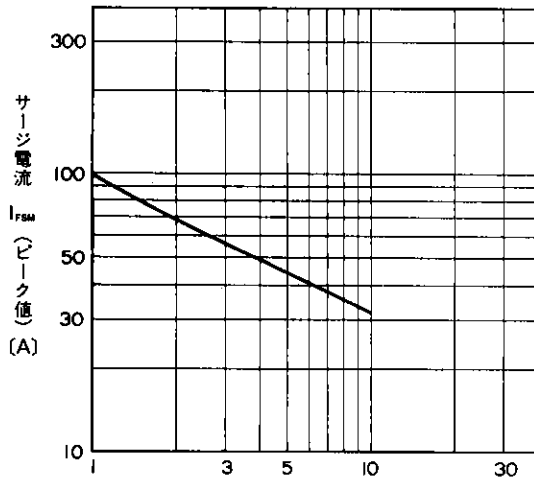


平均出力電流-ケース温度特性
Output Current-Case Temperature

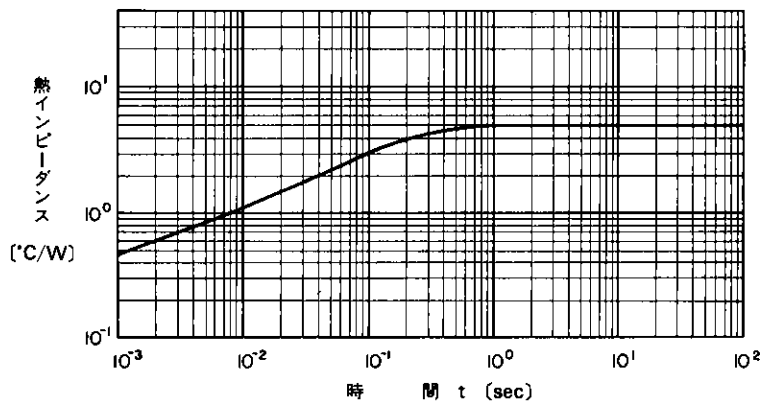


接合容量特性 (代表特性)
Junction Capacitance Characteristics

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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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