

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

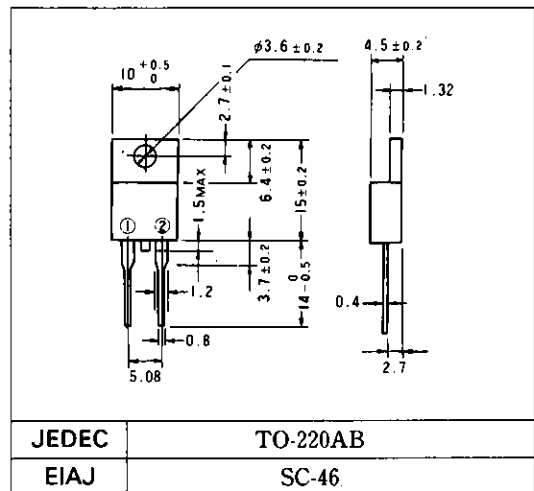
■ 特長 : Features

- 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

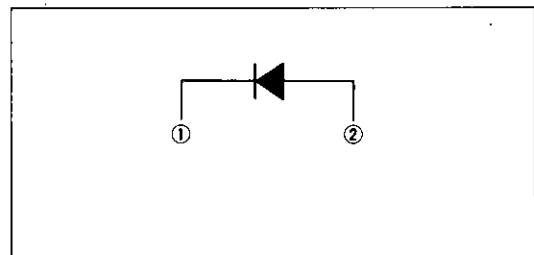
- 高速電力スイッチング
High speed power switching.

■ 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}	tw=500ns duty=1/10	48	V
平均出力電流 Average Output Current	I_O	方形波, duty=1/2, $T_c=102^\circ\text{C}$ Square wave	5	A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms	120	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	$^\circ\text{C}$

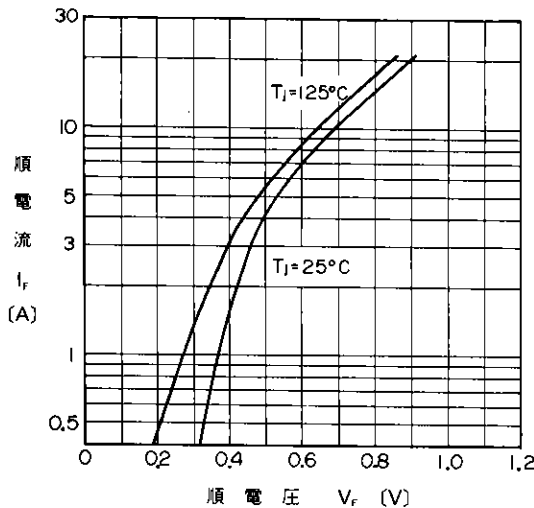
● 電気的特性 (特に指定がない限り周囲温度 $T_a=25^\circ\text{C}$ とする)

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

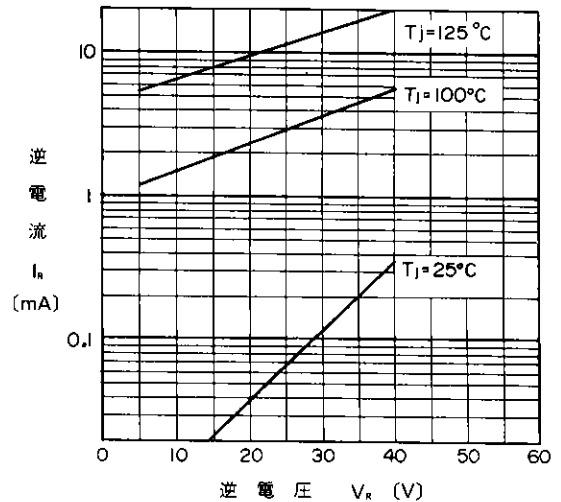
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	$I_{FM}=5.0\text{A}$	0.55	V
逆電流 Reverse Current	I_{RRM}	$V_R=V_{RRM}$	5.0	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	5.0	$^\circ\text{C}/\text{W}$

■特性曲線：Characteristics

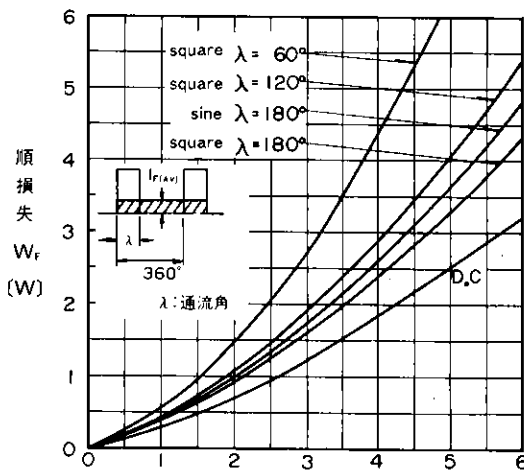
A



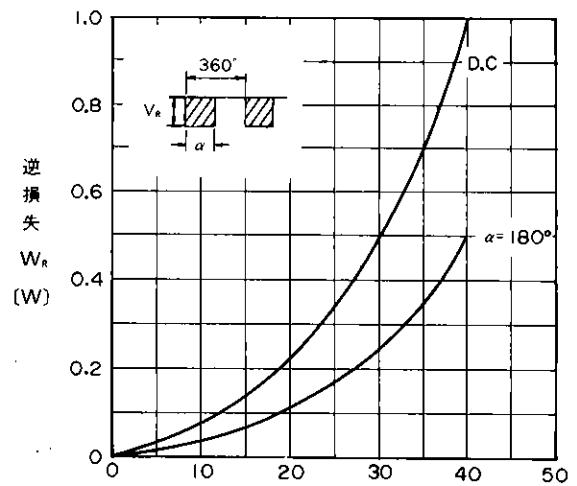
順特性 (代表特性)
Forward Characteristics



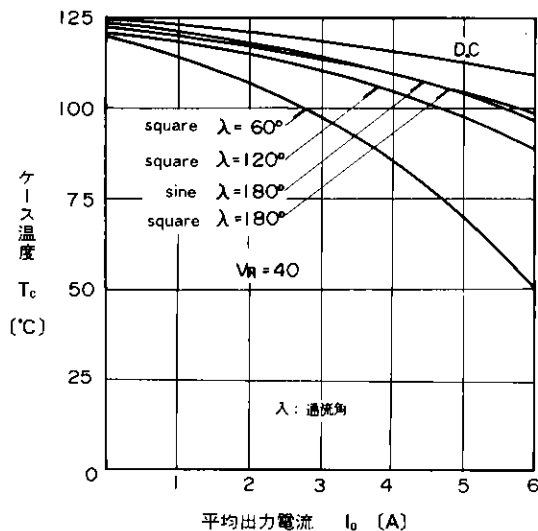
逆特性 (代表特性)
Reverse Characteristics



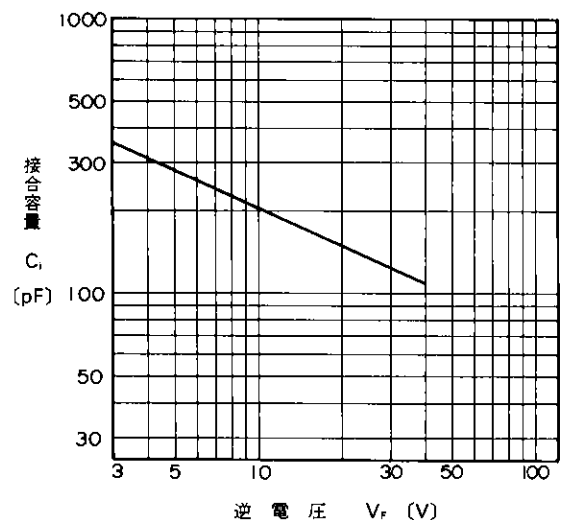
平均出力電流 I_o (A)
順損失特性
Forward Power Dissipation



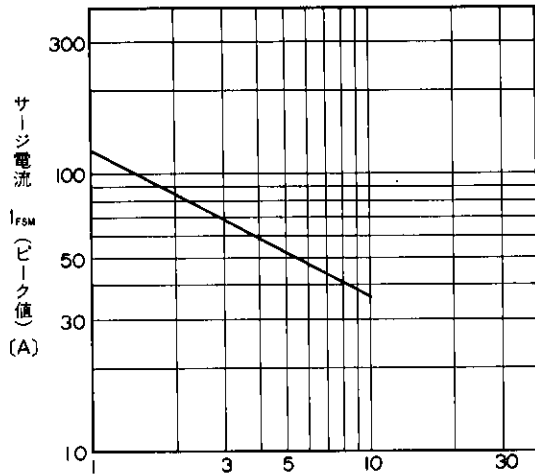
逆損失特性
Reverse Power Dissipation



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

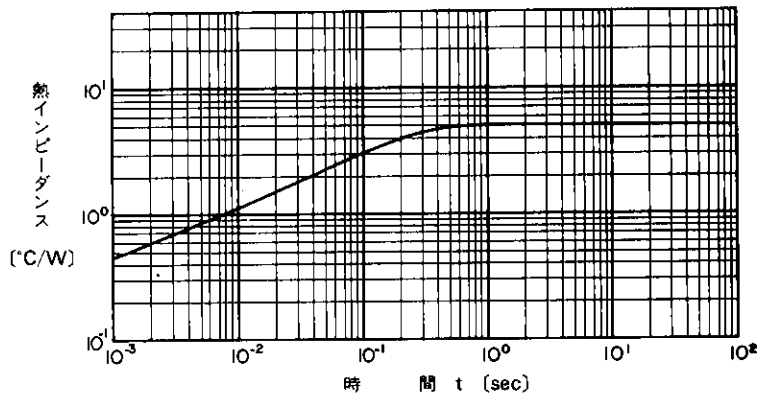


接合容量特性 (代表特性)
Junction Capacitance Characteristics



繰返し回数 (50Hz) (回)

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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