

### ショットキーバリアダイオード

### SCHOTTKY BARRIER DIODE

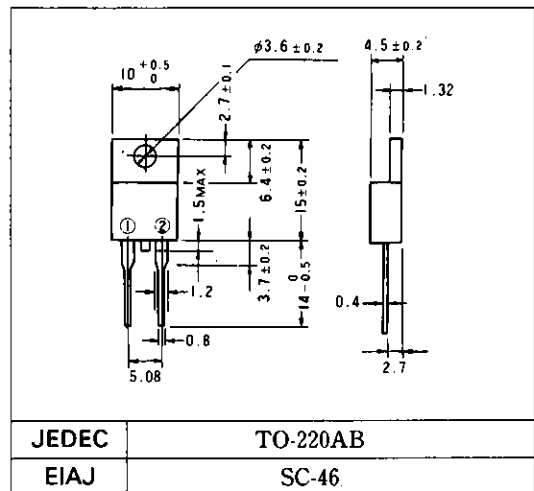
#### ■特長：Features

- 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

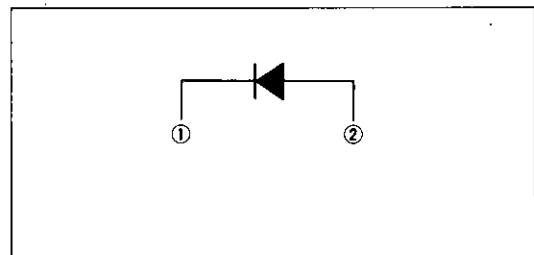
- 高速電力スイッチング  
High speed power switching.

#### ■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	$^\circ\text{C}$

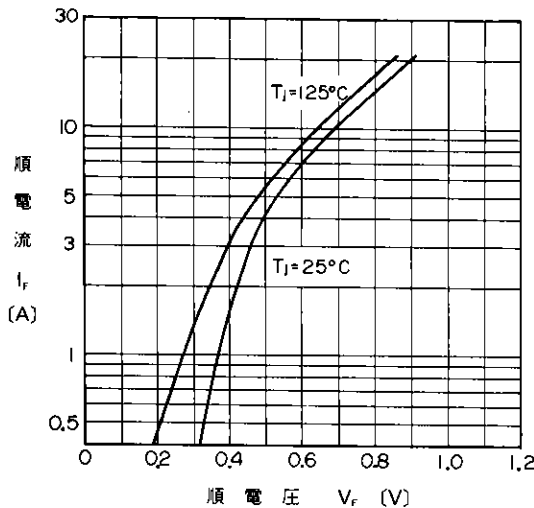
##### ●電気的特性(特に指定がない限り周囲温度 $T_a=25^\circ\text{C}$ とする)

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

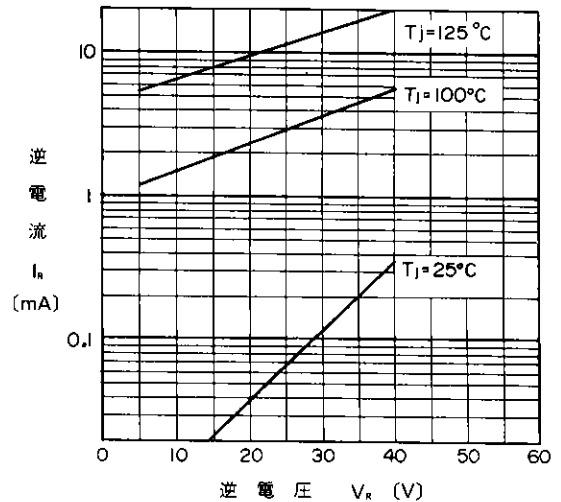
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM}=5.0\text{A}$	0.55	V
逆電流 Reverse Current	$I_{RRM}$	$V_R=V_{RRM}$	5.0	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	5.0	$^\circ\text{C}/\text{W}$

■特性曲線：Characteristics

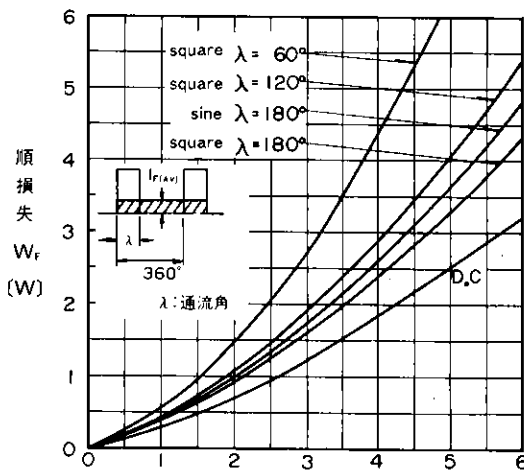
A



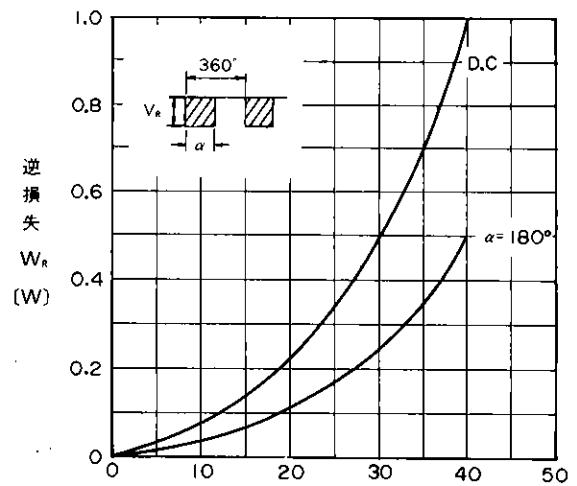
順特性 (代表特性)  
Forward Characteristics



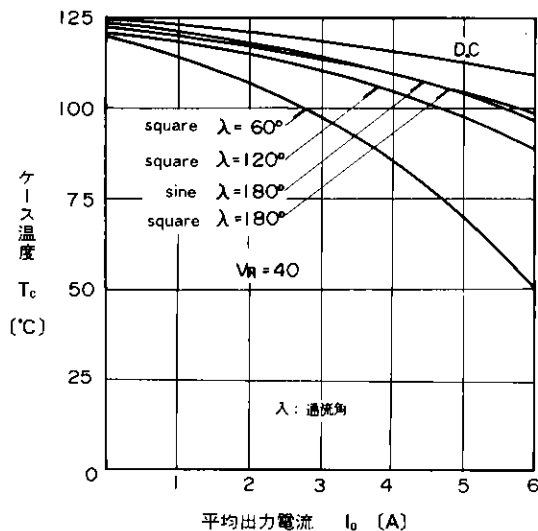
逆特性 (代表特性)  
Reverse Characteristics



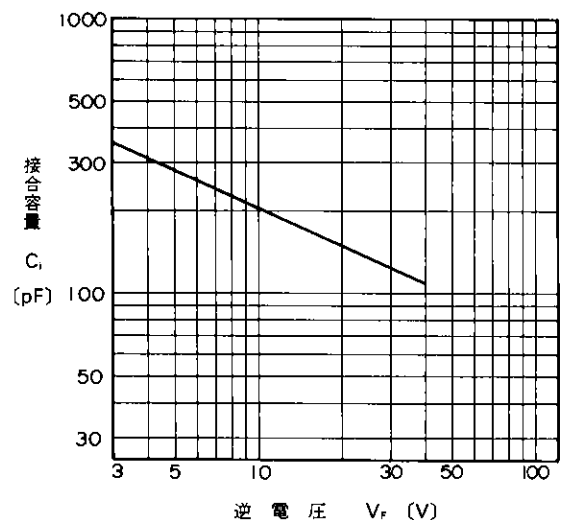
平均出力電流  $I_o$  (A)  
順損失特性  
Forward Power Dissipation



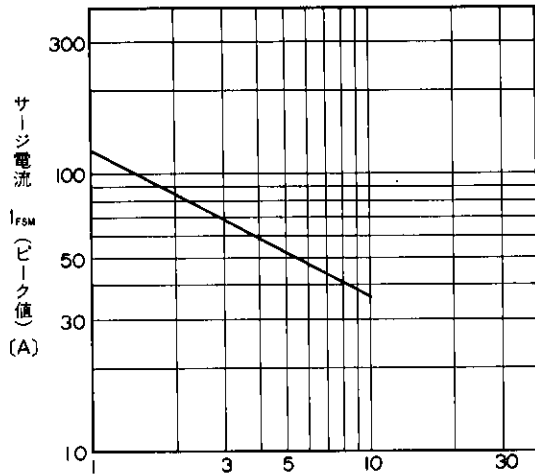
逆損失特性  
Reverse Power Dissipation



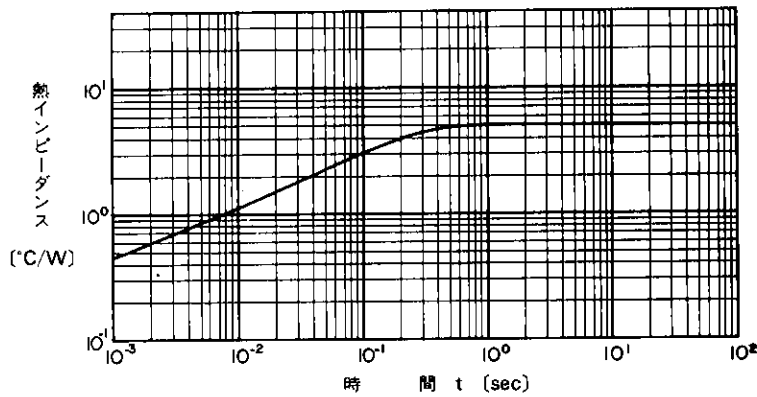
平均出力電流—ケース温度特性  
Average Output Current-Case Temperature



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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