

## ショットキーバリアダイオード

### SCHOTTKY BARRIER DIODE

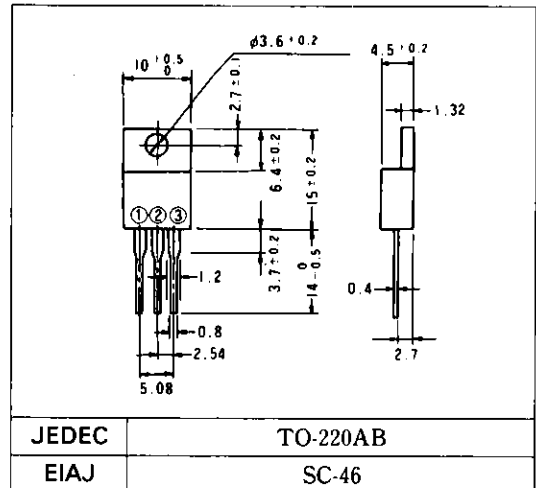
#### ■特長：Features

- 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

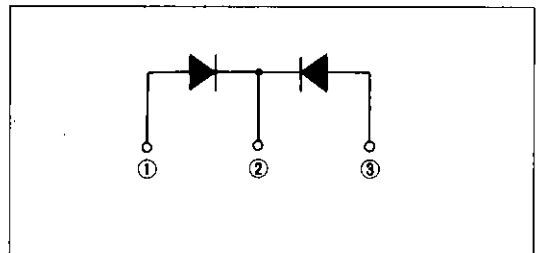
- 高速電力スイッチング  
High speed power switching.

#### ■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	$V_{RRM}$		45	V
ピーク非繰り返し逆電圧 Non-Repitive 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, $duty = 1/2, T_c = 92^\circ C$ Square wave	20*	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	$^\circ C$
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

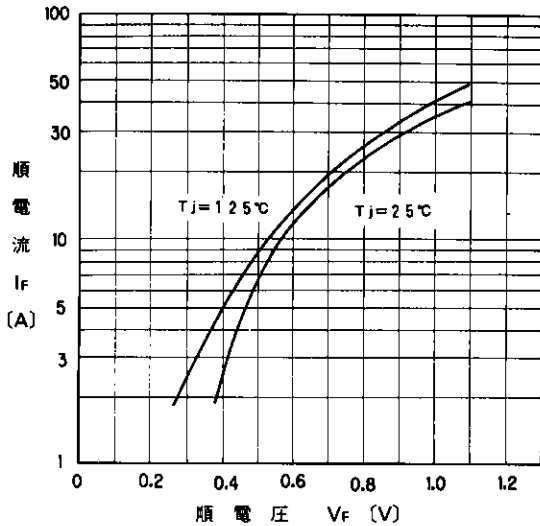
##### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ C$ とする)

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

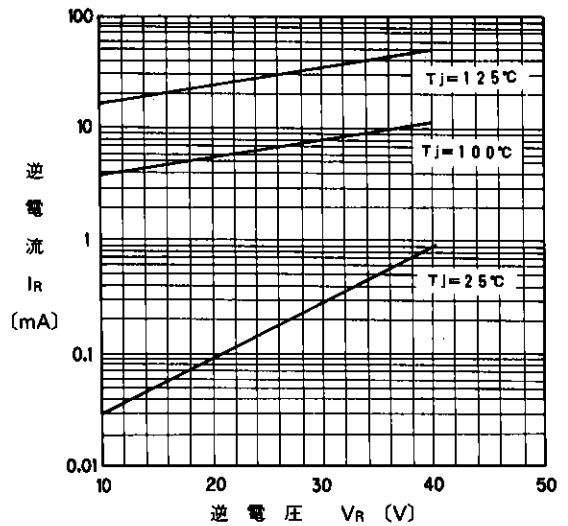
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 10A$	0.6	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	15	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	2.0	$^\circ C/W$

A

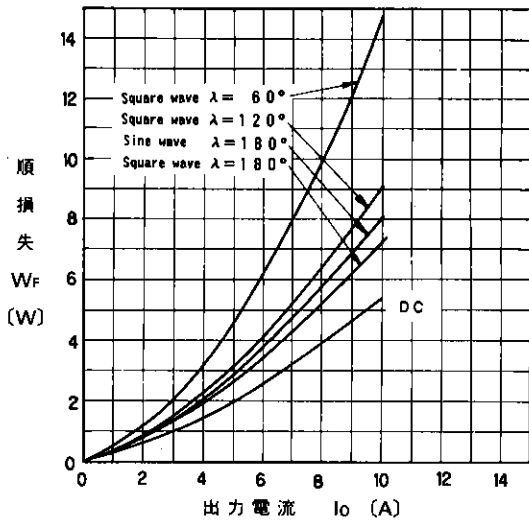
■特性曲線：Characteristics



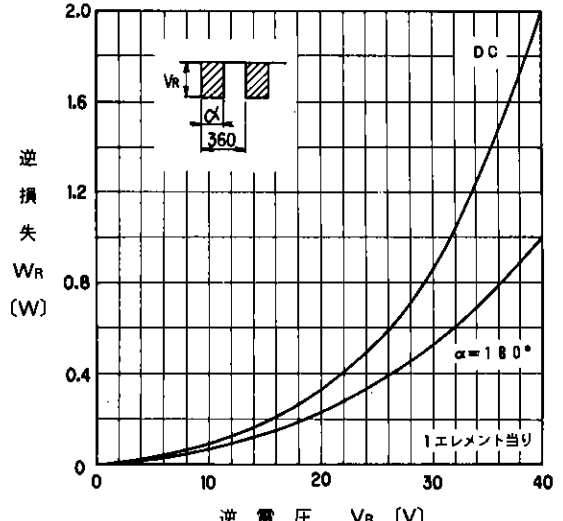
順特性 (代表特性)  
Forward Characteristics



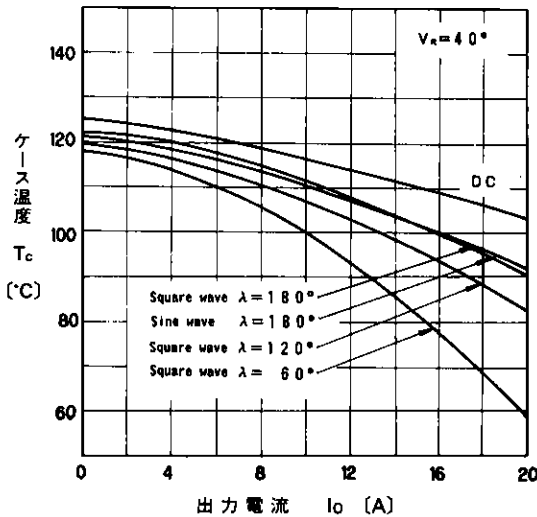
逆特性 (代表特性)  
Reverse Characteristics



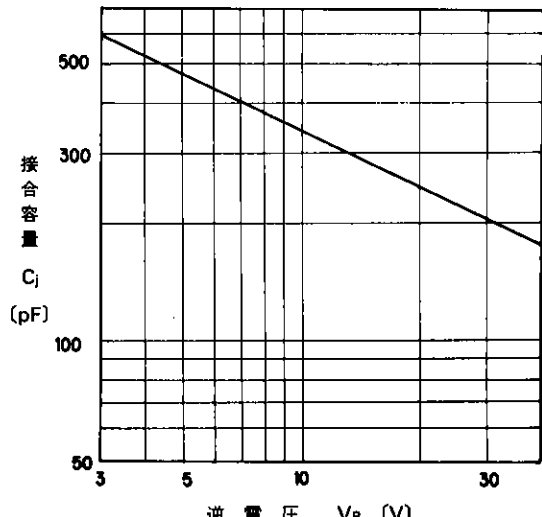
順損失特性  
Forward Power Dissipation



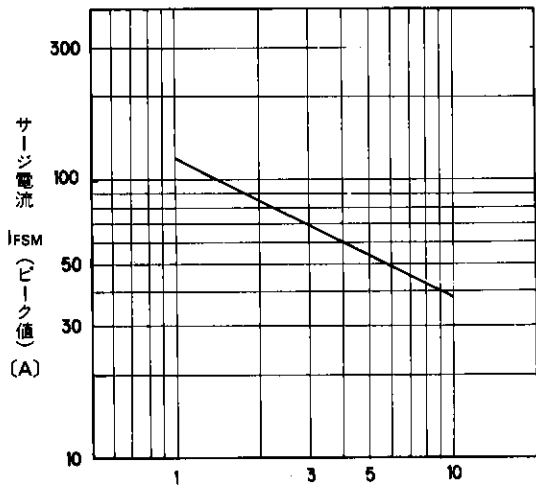
逆損失特性  
Reverse Power Dissipation



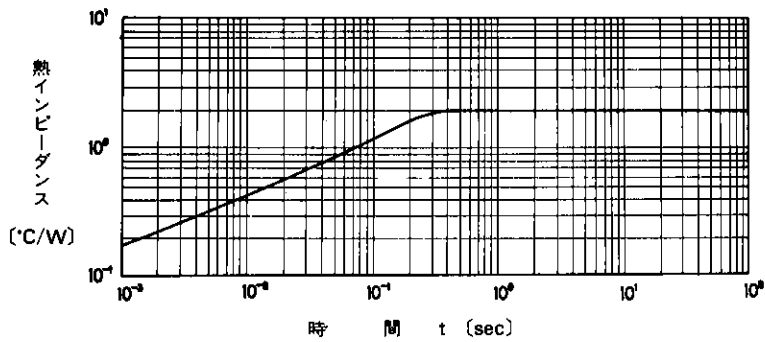
出力電流—ケース温度特性  
Output Current-Case Temperature



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



サージ電流耐量  
Surge Capability



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