

### ショットキーバリアダイオード

### SCHOTTKY BARRIER DIODE

#### ■特長 : Features

- 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.
- 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.

#### ■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	$V_{RRM}$		60	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$t_w = 500\text{ns}$ duty = 1/10	60	V
絶縁耐圧 Isolating Voltage	$V_{iso}$	一括端子・ケース間、AC1分間印加 Terminals-to-Case, AC, 1 min.	1500	V
平均出力電流 Average Output Current	$I_o$	方形波, duty = 1/2, $T_c = 78^\circ\text{C}$ Square wave	20*	A
サージ電流 Surge Current	$I_{FSM}$	正弦波 Sine wave 10ms 定格負荷状態より	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	$^\circ\text{C}$

\* センタータップ平均出力電流

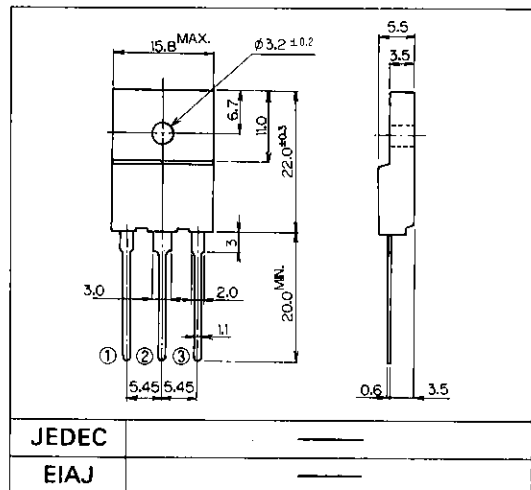
\* average forward current of centertap full wave connection

##### ●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)

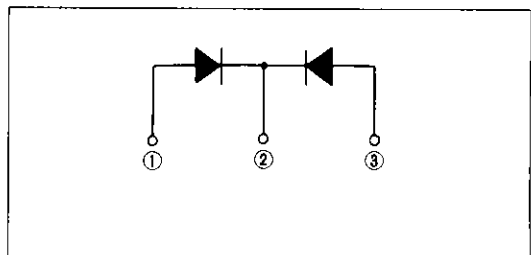
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 8\text{A}$	0.58	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	15.0	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	2.5	$^\circ\text{C}/\text{W}$

#### ■外形寸法 : Outline Drawings

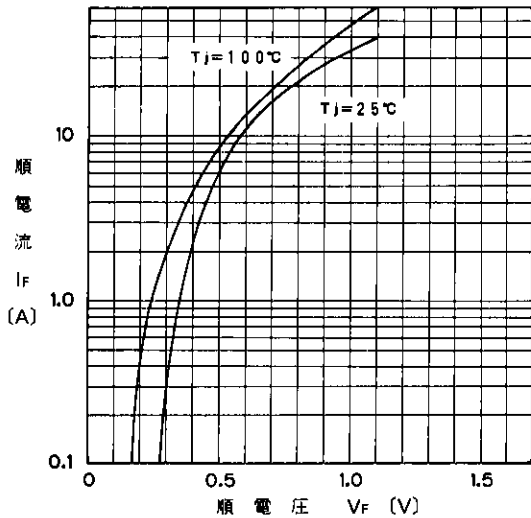


#### ■電極接続

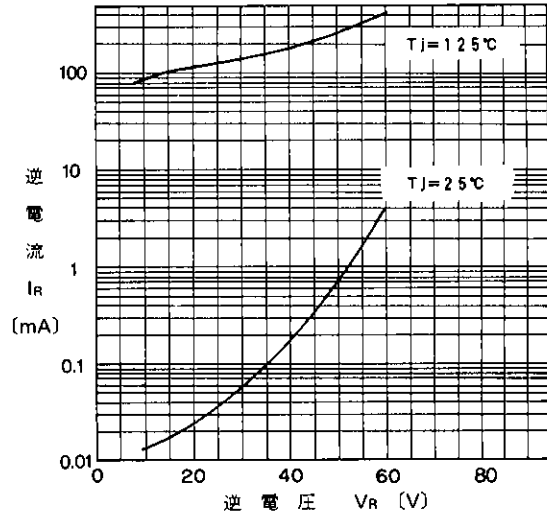
#### Connection Diagram



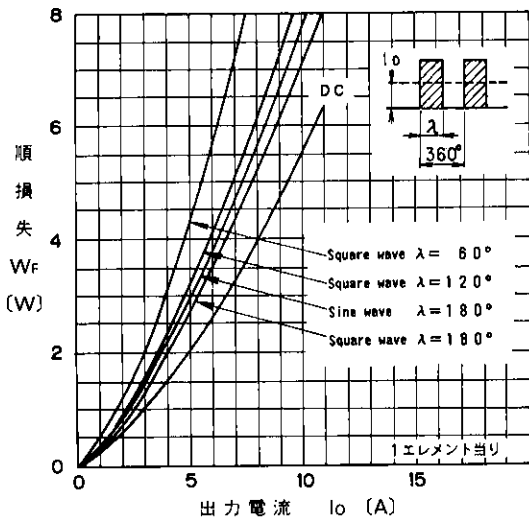
■特性曲線：Characteristics



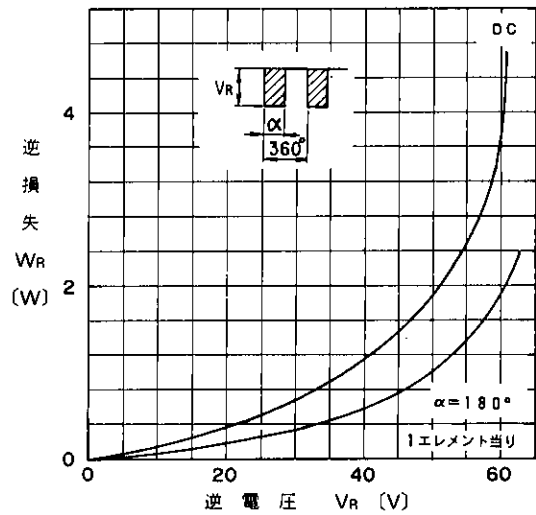
順特性 (代表特性)  
Forward Characteristics



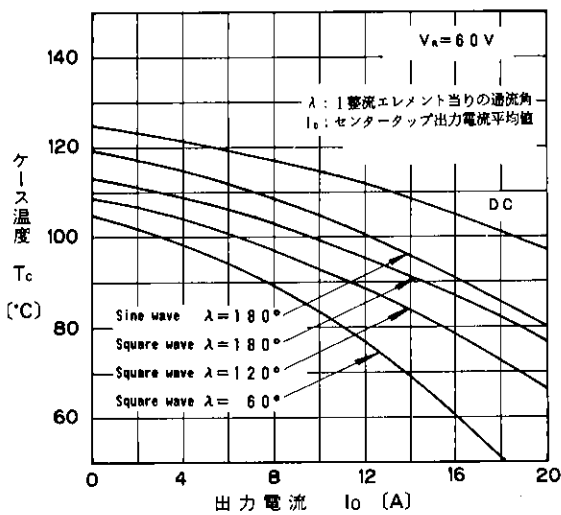
逆特性 (代表特性)  
Reverse Characteristics



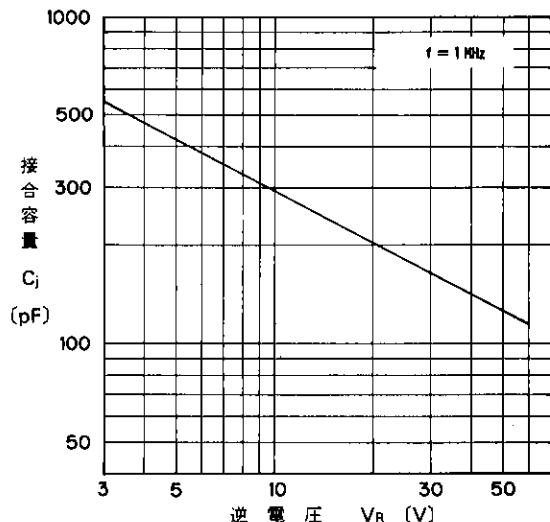
順損失特性  
Forward Power Dissipation



逆損失特性  
Reverse Power Dissipation

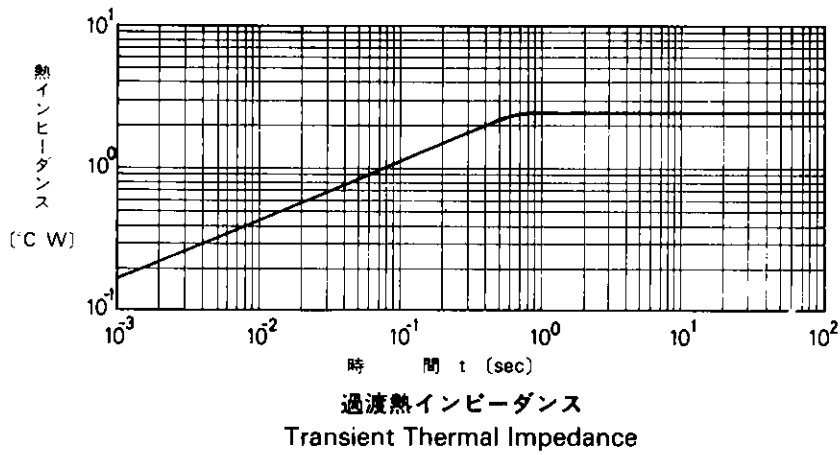
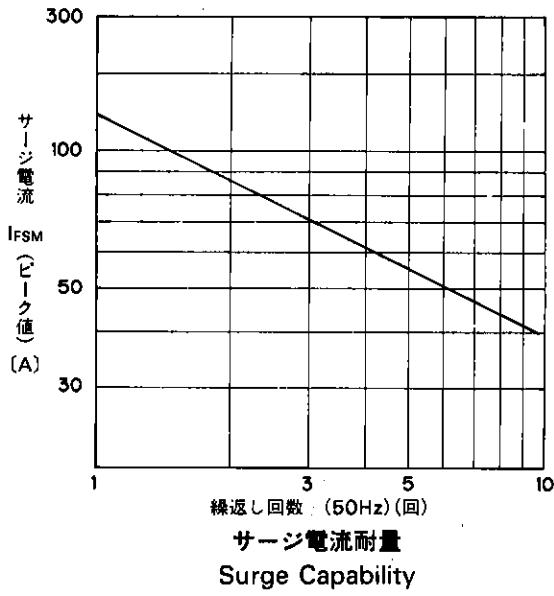


出力電流-ケース温度特性  
Output Current-Case Temperature



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

A



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