

### 低損失超高速ダイオード

### LOW LOSS SUPER HIGH SPEED RECTIFIER

#### ■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

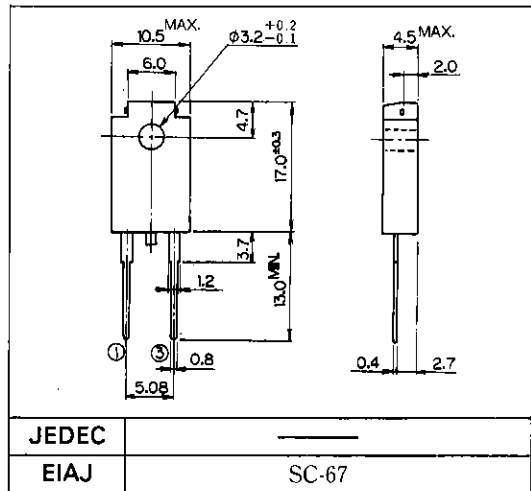
Items	Symbols	Conditions	Ratings	Units
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$		300	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		300	V
絶縁耐圧 Isolating Voltage	$V_{iso}$	一括端子・ケース間、AC1分間印加 Terminals-to-Case, AC, 1 min.	1500	V
平均出力電流 Average Output Current	$I_o$	方形波, duty=1/2, $T_c=128^\circ\text{C}$ Square wave	5	A
サージ電流 Surge Current	$I_{FSM}$	正弦波 Sine wave 10ms 定格負荷状態より	40	A
接合温度 Operating Junction Temperature	$T_j$		-40~+150	$^\circ\text{C}$
保存温度 Storage Temperature	$T_{stg}$		-40~+150	$^\circ\text{C}$

##### ●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)

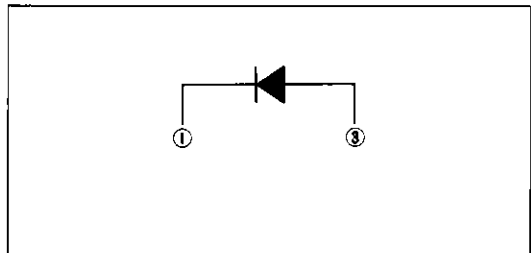
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM}=5\text{A}$	1.2	V
逆電流 Reverse Current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F=0.1\text{A}, I_R=0.2, I_{rec}=0.05\text{A}$	35	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	3.5	$^\circ\text{C/W}$

#### ■外形寸法：Outline Drawings

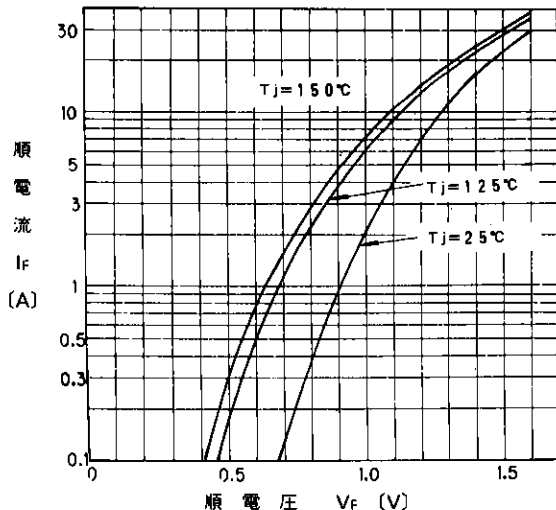


#### ■電極接続

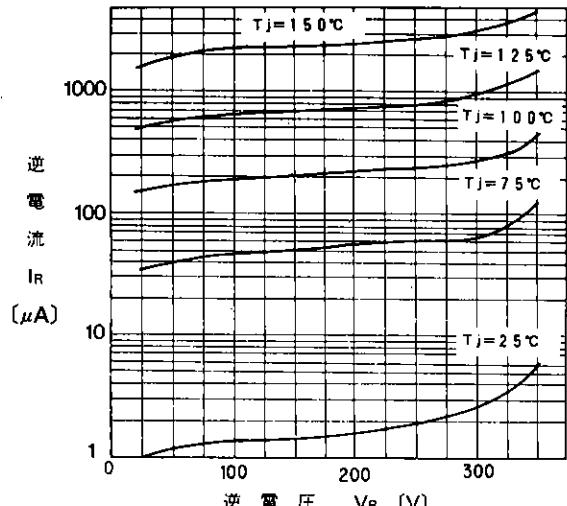
#### Connection Diagram



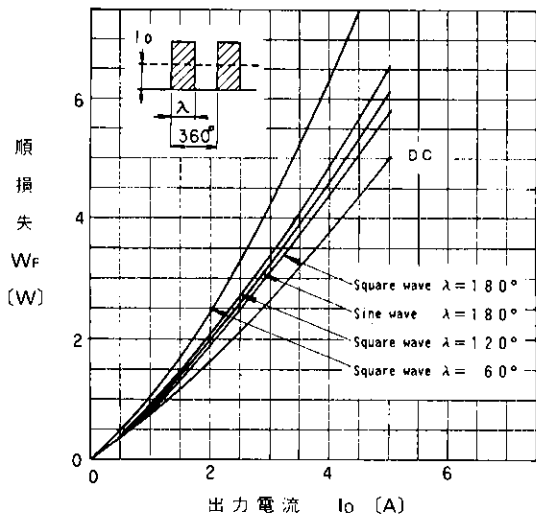
■特性曲線 : Characteristics



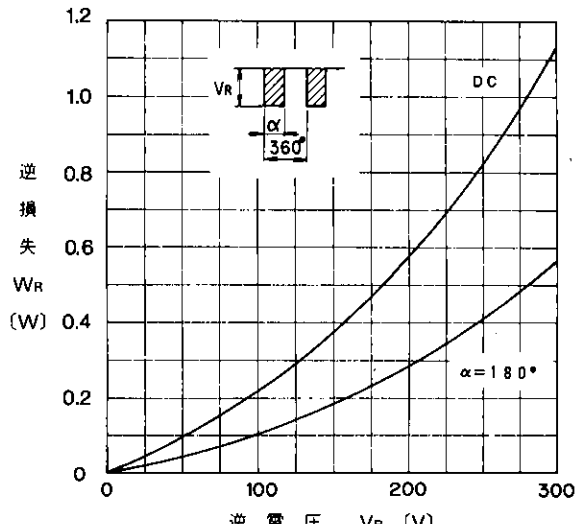
順特性 (代表特性)  
Forward Characteristics



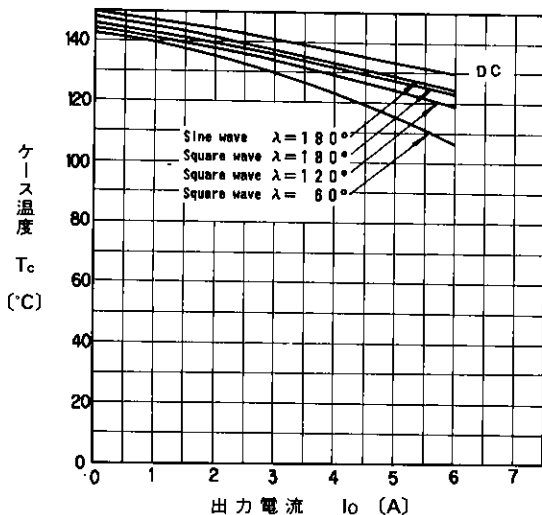
逆特性 (代表特性)  
Reverse Characteristics



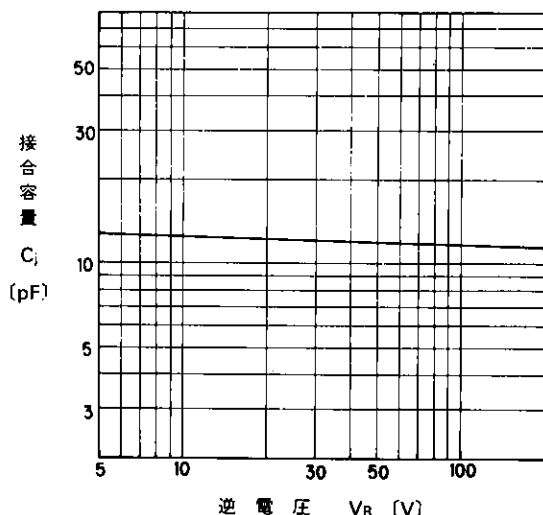
順損失特性  
Forward Power Dissipation



逆損失特性  
Reverse Power Dissipation

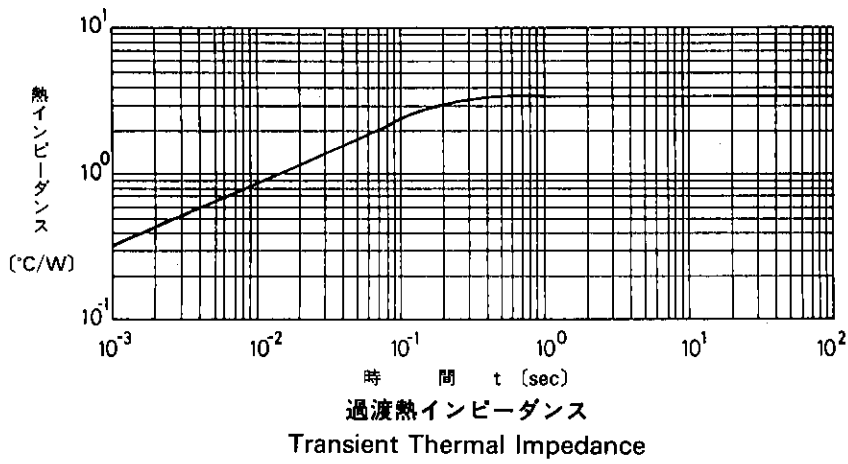


出力電流-ケース温度特性  
Output Current-Case Temperature



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

A



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