

## 高速整流ダイオード

### FAST RECOVERY DIODE

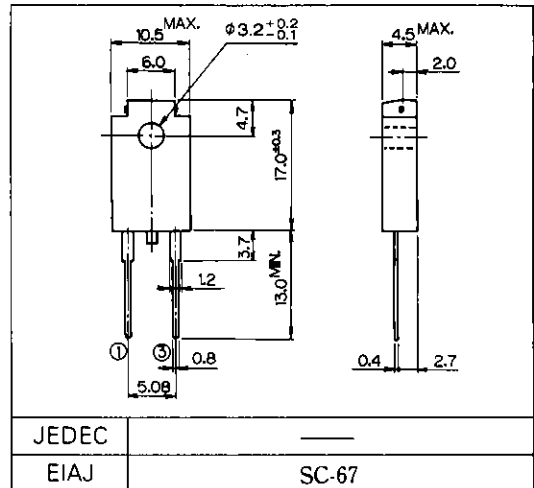
#### ■特長：Features

- 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.
- メサ形のため耐圧が高い  
High voltage by mesa design.
- 高信頼性  
High reliability

#### ■用途：Applications

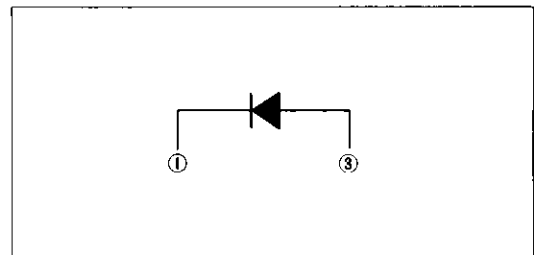
- 高速スイッチング  
High speed switching.

#### ■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	$V_{RRM}$		600	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		600	V
平均出力電流 Average Output Current	$I_O$	方形波, duty = 1/2, $T_c = 100^\circ\text{C}$ Square wave	4	A
サージ電流 Surge Current	$I_{FSM}$	正弦波 Sine wave 10ms	50	Ap
接合温度 Operating Junction Temperature	$T_j$		-40 ~ +150	$^\circ\text{C}$
保存温度 Storage Temperature	$T_{stg}$		-40 ~ +150	$^\circ\text{C}$

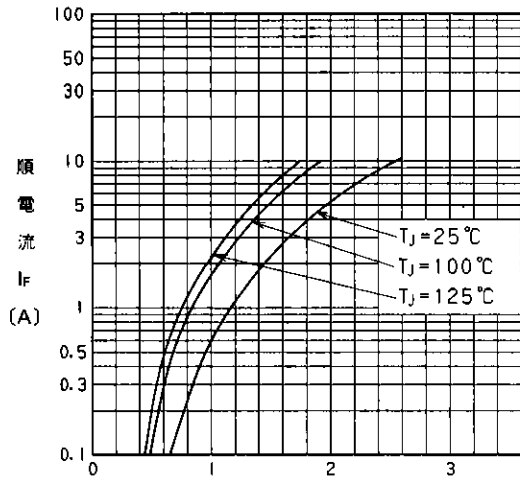
##### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

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

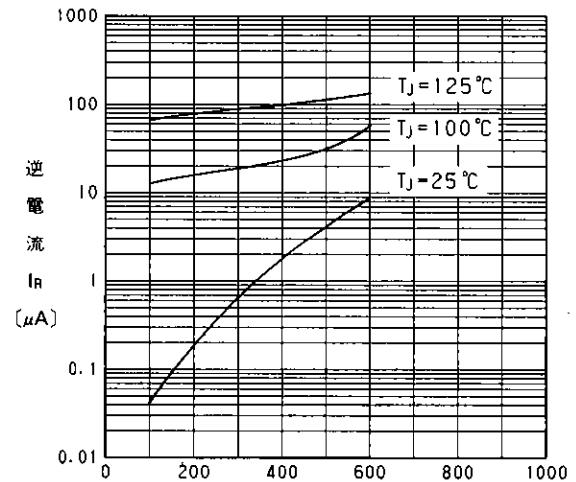
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 4.0\text{A}$	2.6	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	100	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F = 0.1\text{A}, I_R = 0.1\text{A}$	60	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 平滑直流 junction to case	3.5	$^\circ\text{C/W}$

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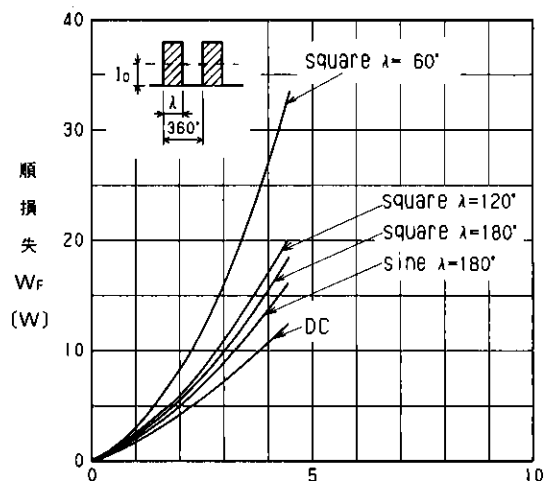
■特性曲線：Characteristics



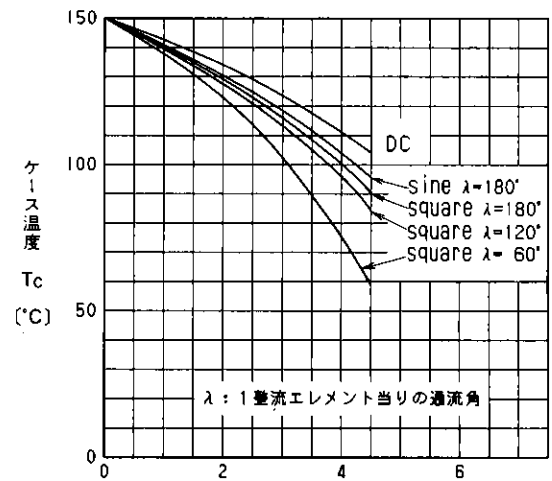
順電圧  $V_f$  (V)  
順特性 (代表特性)  
Forward Characteristics



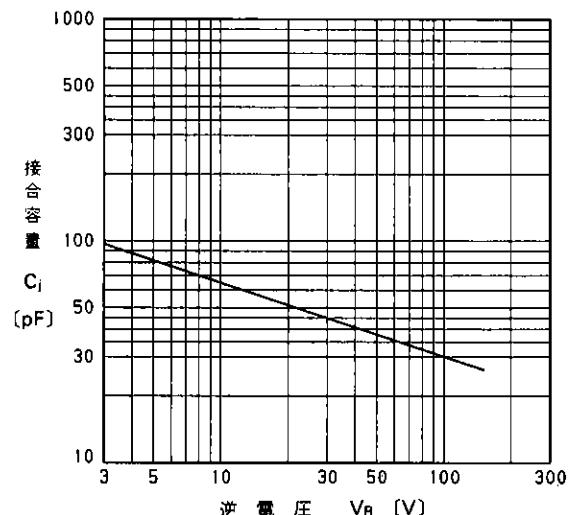
逆電圧  $V_r$  (V)  
逆特性 (代表特性)  
Reverse Characteristics



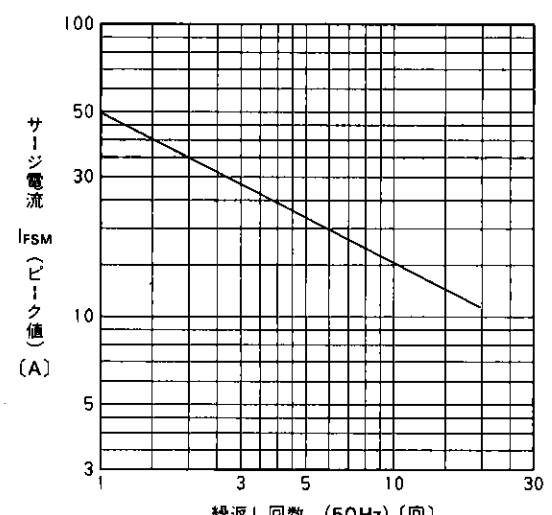
平均出力電流  $I_o$  (A)  
順損失特性  
Forward Power Dissipation



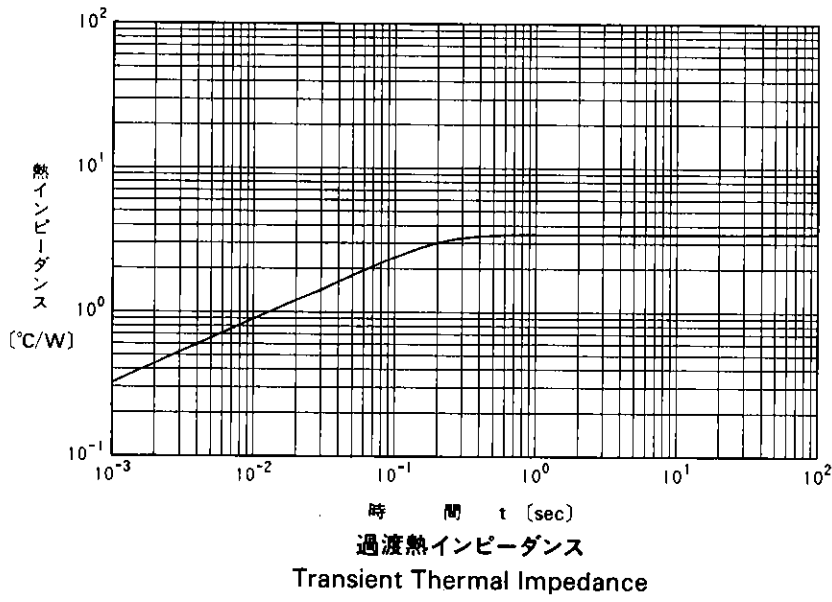
平均出力電流  $I_o$  (A)  
出力電流-ケース温度特性  
Output Current-Case Temperature



逆電圧  $V_r$  (V)  
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



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