

低損失超高速ダイオード

LOW LOSS SUPER HIGH SPEED RECTIFIER

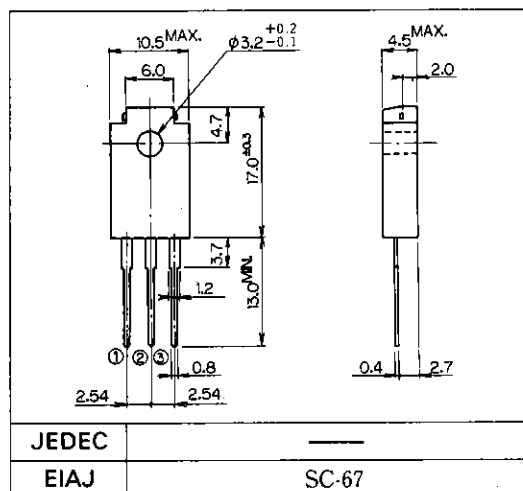
■特長：Features

- 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

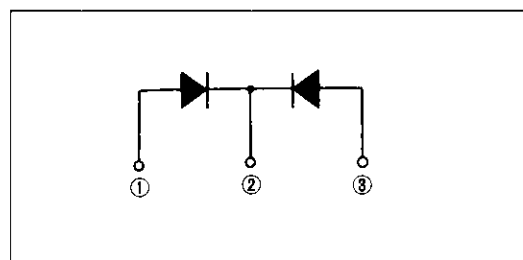
- 高速電力スイッチング
High speed power switching.

■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}		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, $T_c=101^\circ\text{C}$ Square wave	10*	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	$^\circ\text{C}$

*センタータップ平均出力電流

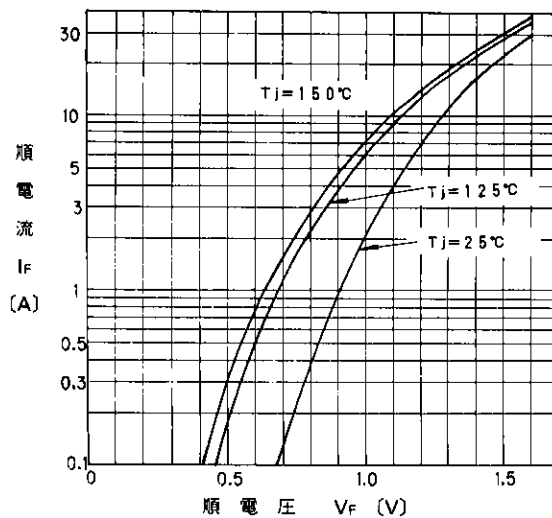
* average forward current of centertap full wave connection

●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)

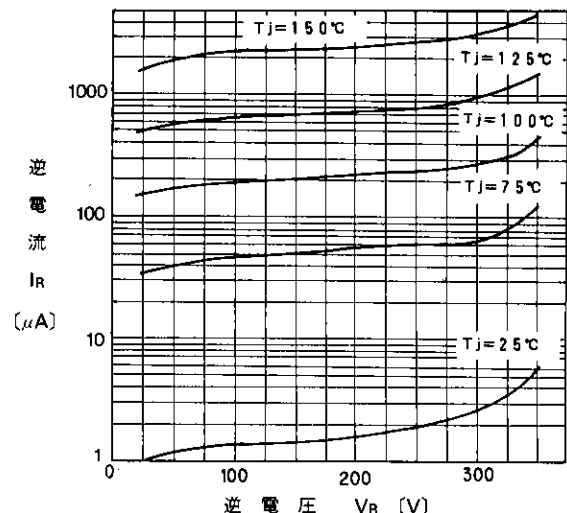
Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

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

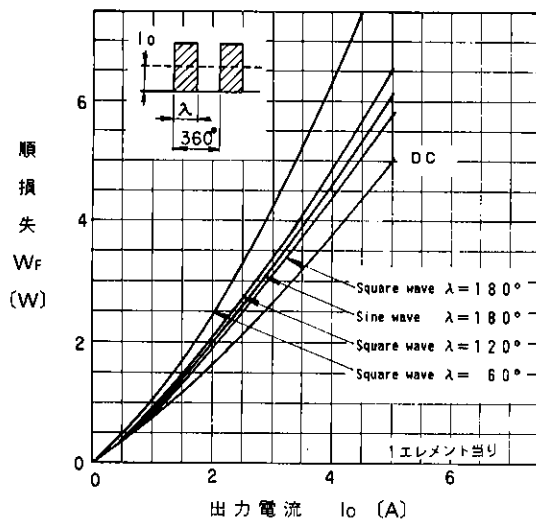
■特性曲線：Characteristics



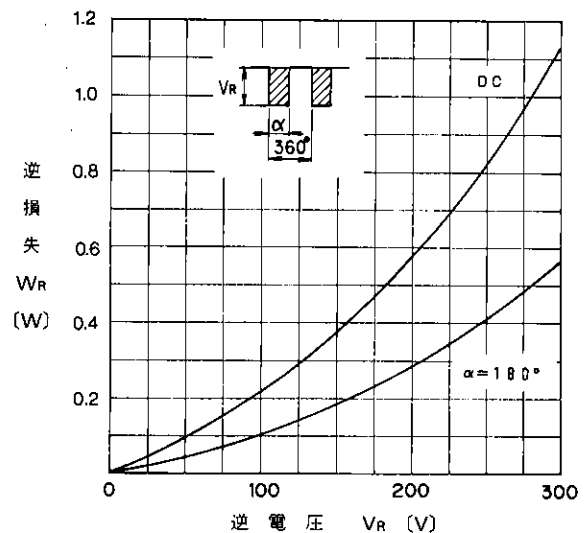
Forward Characteristics



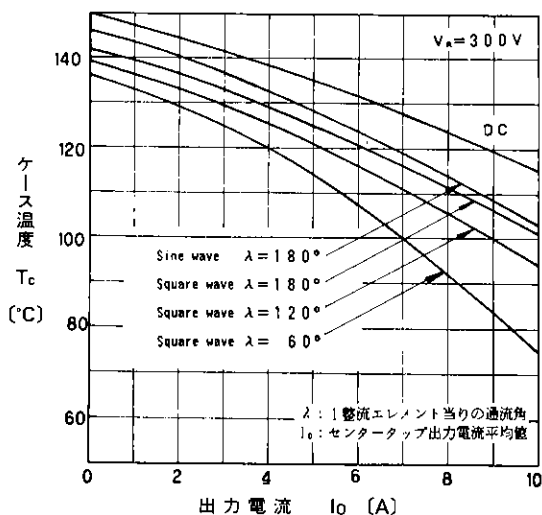
Reverse Characteristics



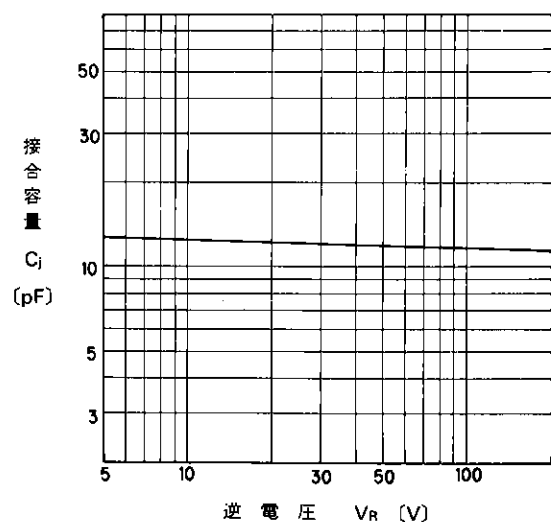
Forward Power Dissipation



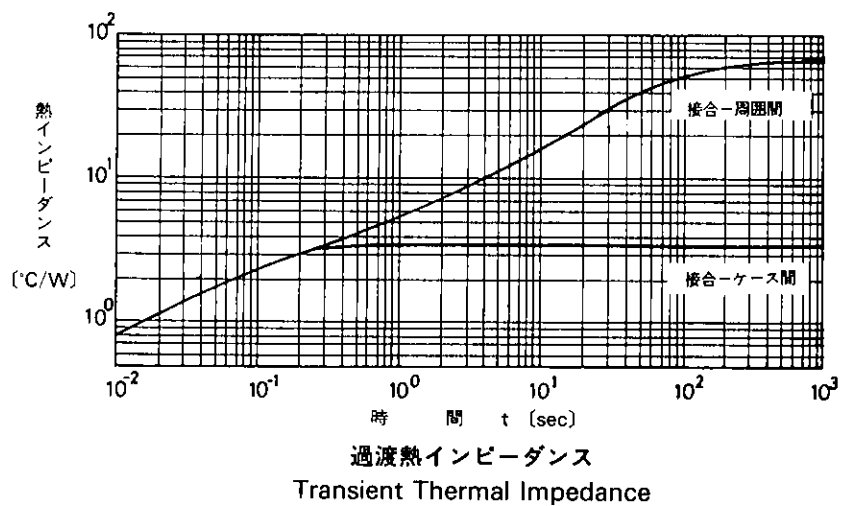
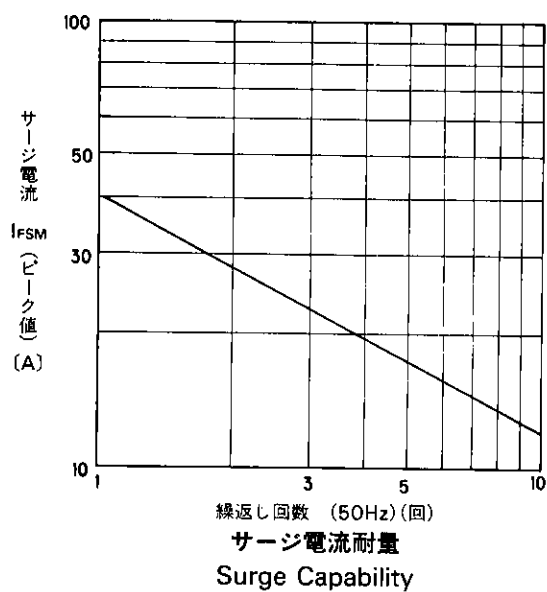
Reverse Power Dissipation



Output Current-Case Temperature



Junction Capacitance Characteristics



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