

ショットキーバリアダイオード

SCHOTTKY BARRIER DIODE

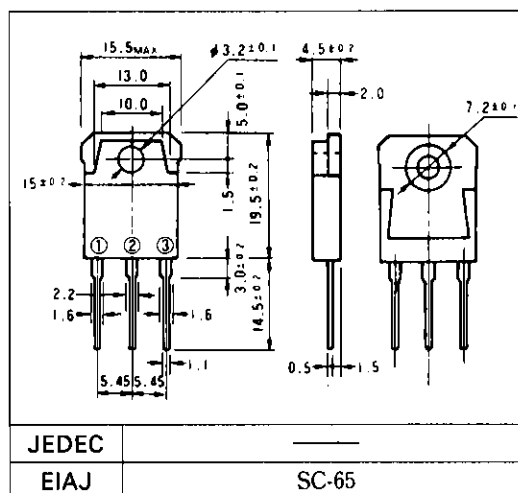
■特長：Features

- 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

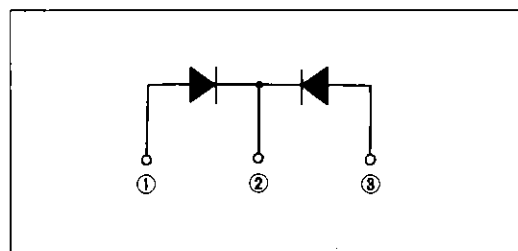
- 高速電力スイッチング
High speed power switching.

■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}		20	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	V_{RSM}		24	V
平均出力電流 Average Output Current	I_O	矩形波, $duty = \frac{1}{2}$, $T_C = 85^\circ C$ Rectangle wave	30*	A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms 定格負荷より	250	A
接合温度 Operating Junction Temperature	T_j		$-40 \sim +125$	$^\circ C$
保存温度 Storage Temperature	T_{stg}		$-40 \sim +125$	$^\circ C$

* センタータップ平均出力電流

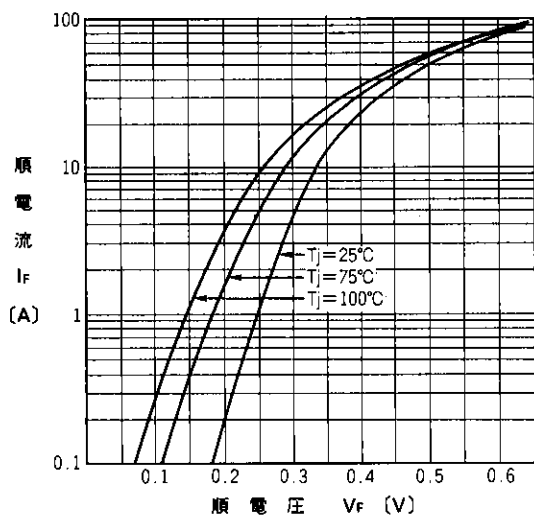
* average forward current of centertap full wave connection

●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)

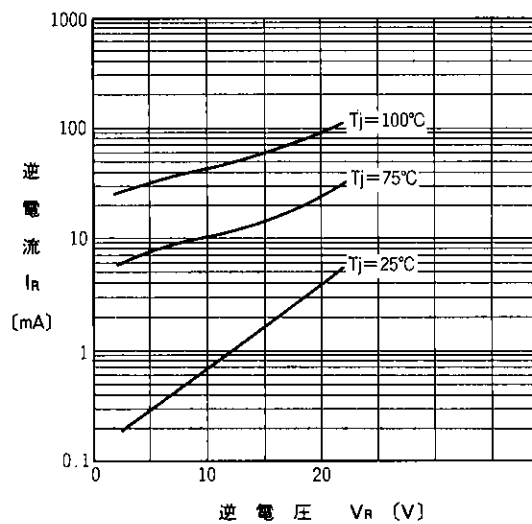
Electrical Characteristics ($T_a = 25^\circ C$ Unless otherwise specified)

Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	$I_{FM} = 12.5A$	0.4	V
逆電流 Reverse Current	I_{RRM}	$V_R = V_{RRM}$	50	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	1.2	$^\circ C/W$

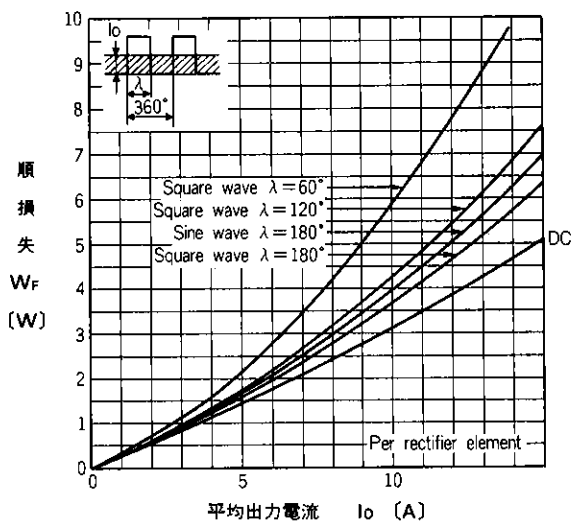
■特性曲線：Characteristics



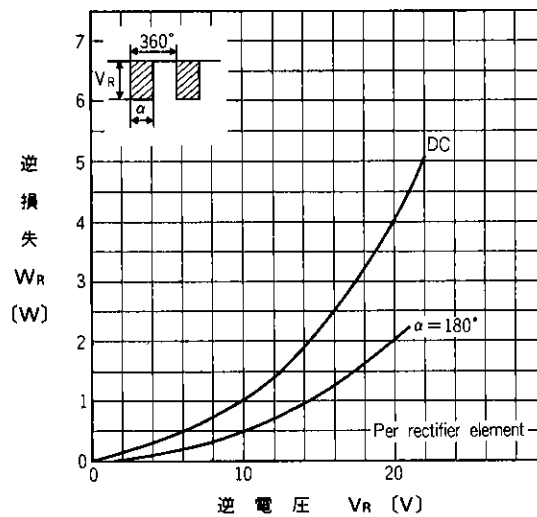
Forward Characteristics



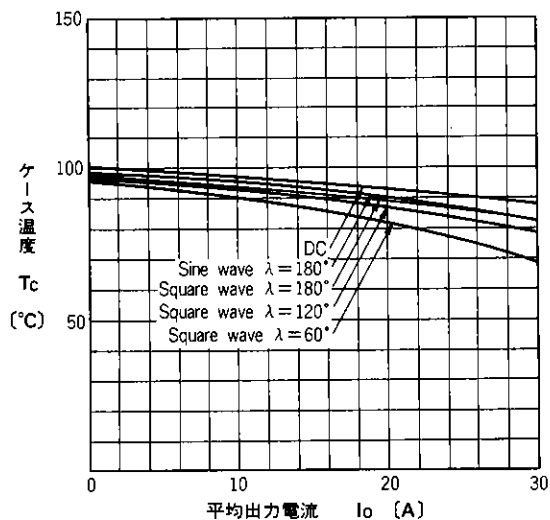
Reverse Characteristics



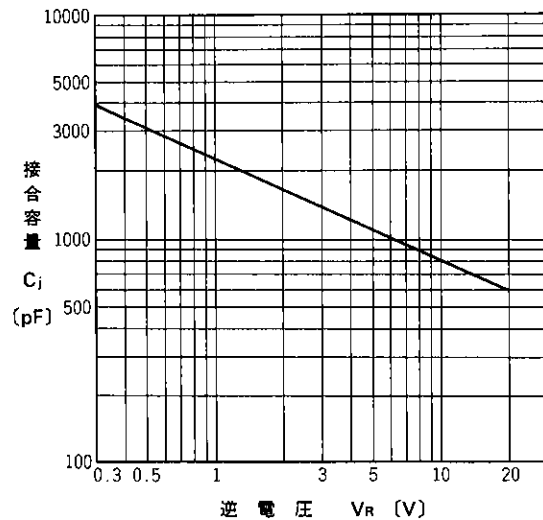
Forward Power Dissipation



Reverse Power Dissipation

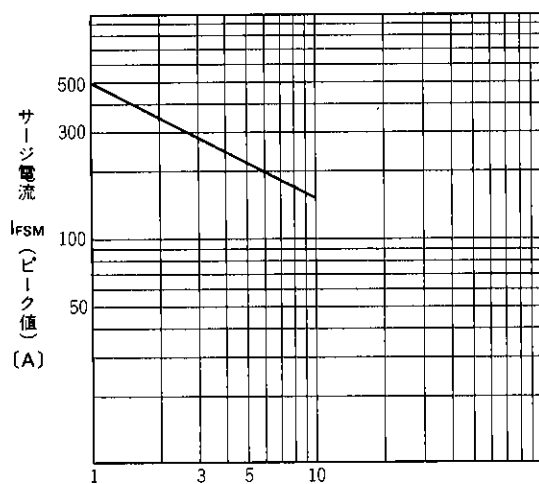


Output Current—Case Temperature

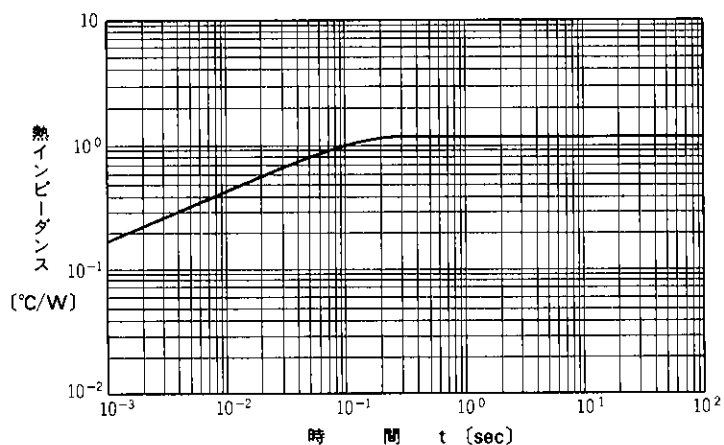


Junction Capacitance Characteristics

A



繰返し回数 (50Hz) (回)

サージ電流耐量
Surge Capability時間 t (sec)過渡熱インピーダンス
Transient Thermal Impedance

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