

## ショットキーバリアダイオード

## SCHOTTKY BARRIER DIODE

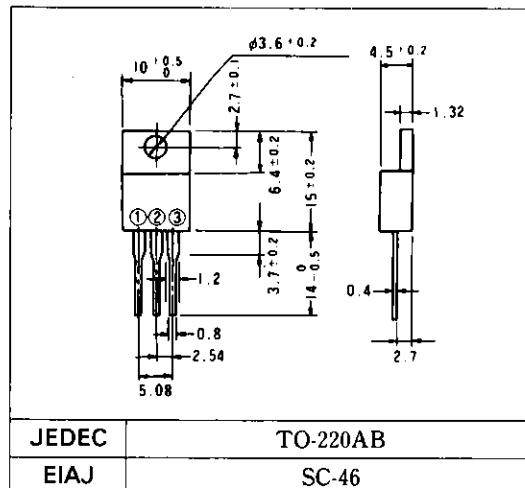
## ■特長：Features

- 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

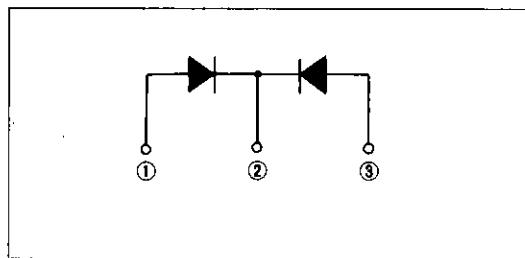
- 高速電力スイッチング  
High speed power switching.

## ■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	$V_{RRM}$		45	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$	$t_w = 500\text{ns}, \text{duty} = \frac{1}{6}$	48	V
平均出力電流 Average Output Current	$I_o$	方形波, $\text{duty} = \frac{1}{2}, T_c = 92^\circ\text{C}$ Square wave	20*	A
サージ電流 Surge Current	$I_{FSM}$	正弦波 Sine Wave 10ms	120	A
接合温度 Operating Junction Temperature	$T_j$		-40 ~ +125	°C
保存温度 Storage Temperature	$T_{stg}$		-40 ~ +125	°C

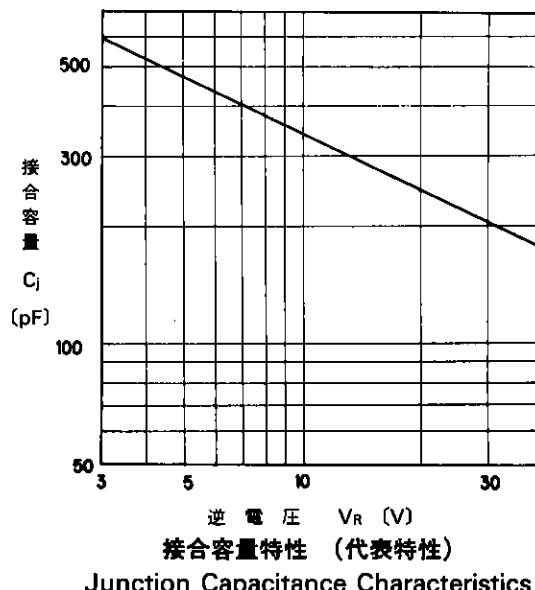
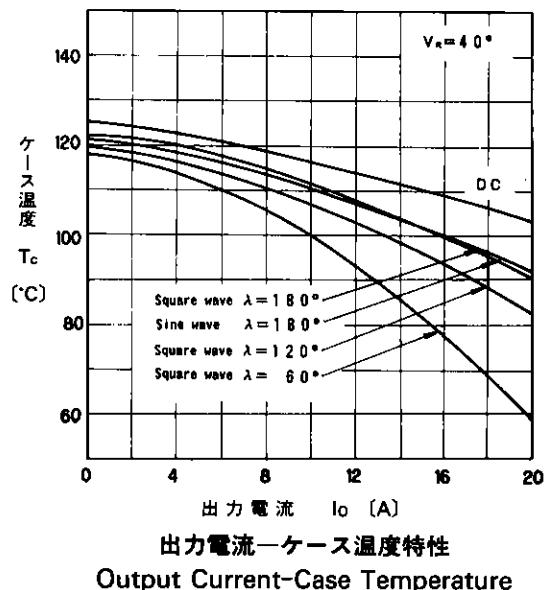
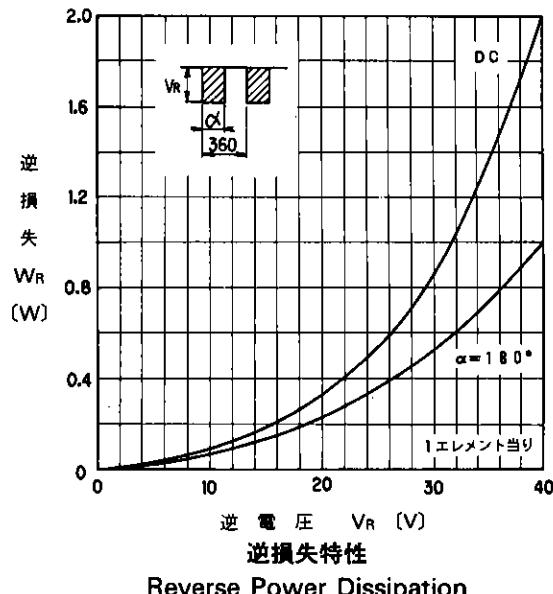
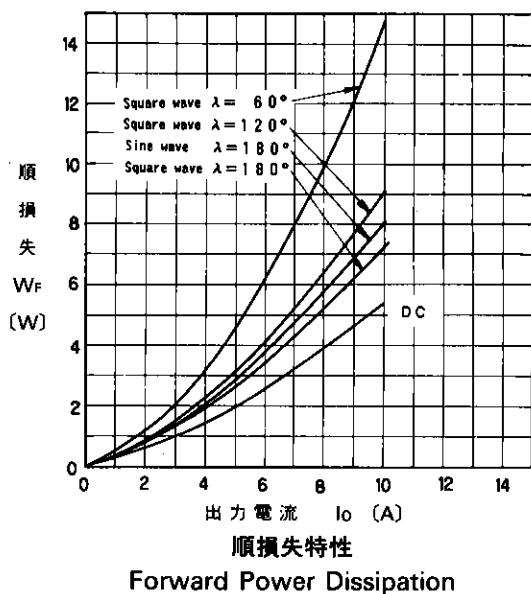
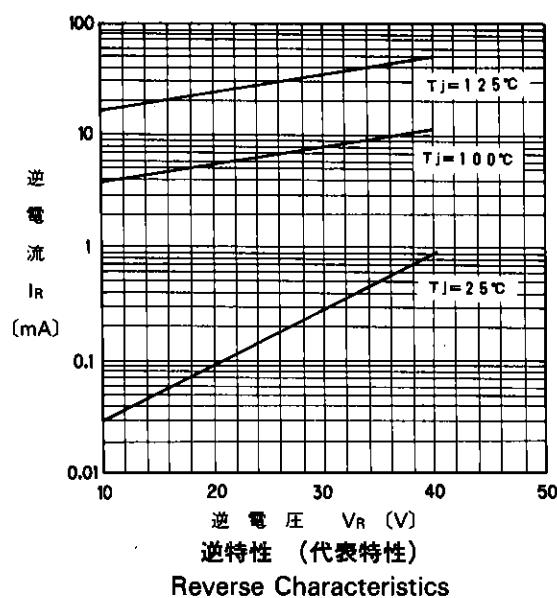
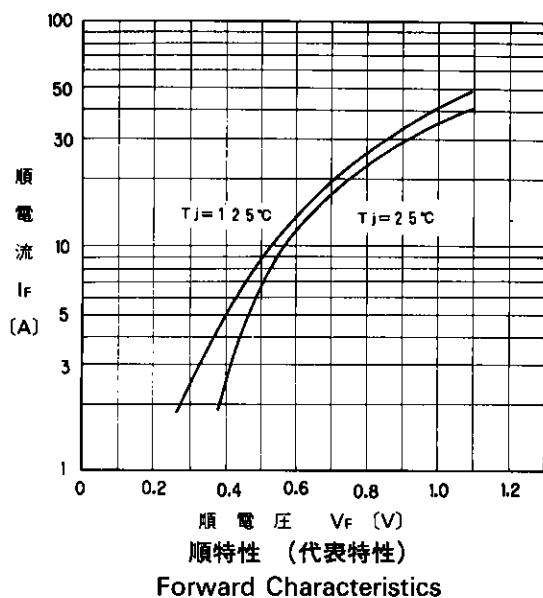
\*センタータップ平均出力電流

\*average forward current of centertap full wave connection

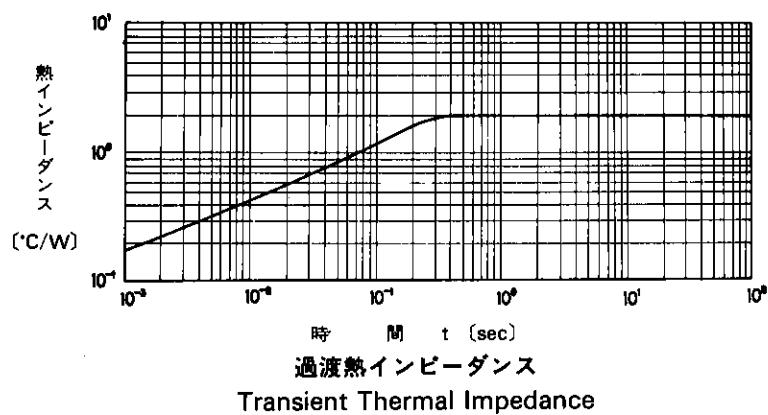
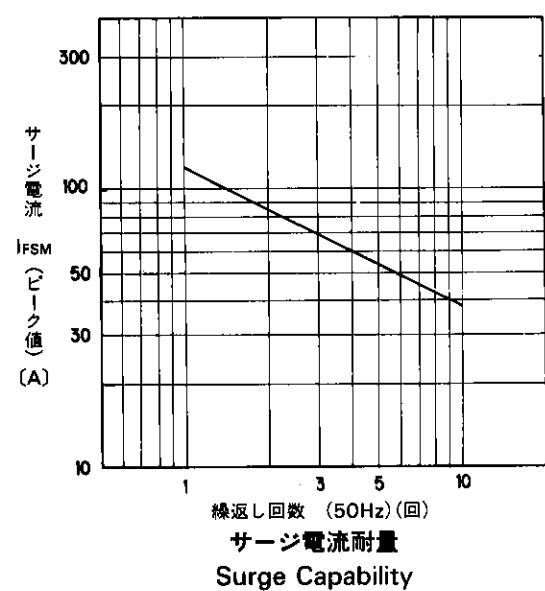
●電気的特性(特に指定がない限り周囲温度  $T_a = 25^\circ\text{C}$  とする)Electrical Characteristics ( $T_a = 25^\circ\text{C}$  Unless otherwise specified)

Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 10\text{A}$	0.6	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	15	mA
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	2.0	°C/W

## ■特性曲線：Characteristics



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