

高速整流ダイオード

FAST RECOVERY DIODE

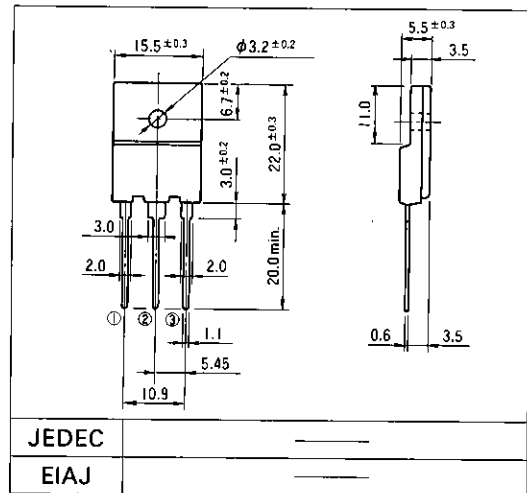
■特長：Features

- 高品位TV, 高精細度ディスプレイ用ダンパー
Damper diode for high definition TV and high resolution display.
- ダンパーとモジュレータダイオードの複合化
Damper and modulator diode are jointed in a body.
- 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

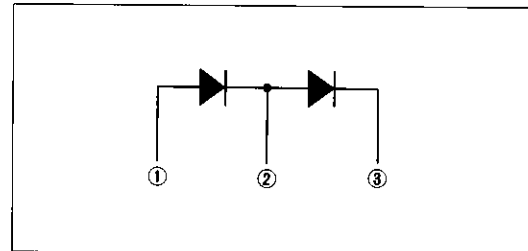
- 水平偏向回路
Horizontal deflection circuit.

■外形寸法：Outline Drawings



■電極接続

Connection Diagram



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■定格と特性：Maximum Ratings and Characteristics

●絶対最大定格：Absolute Maximum Ratings

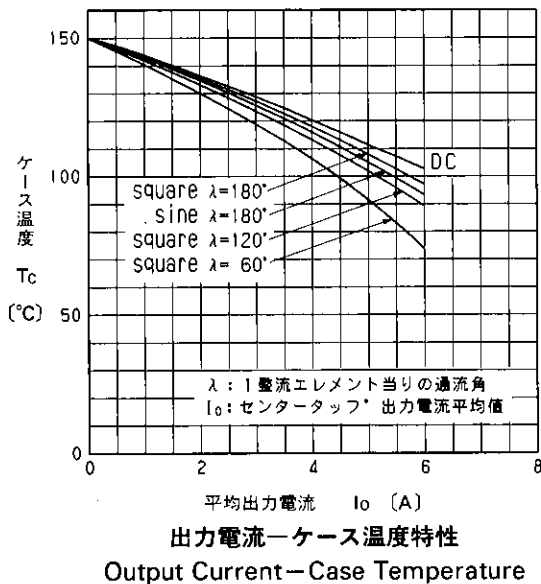
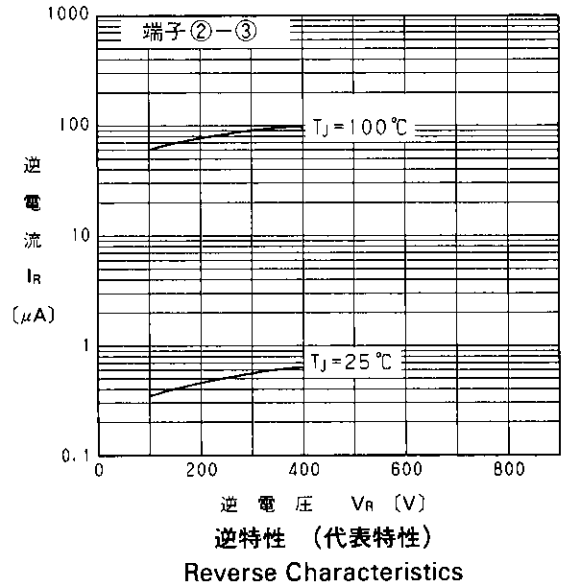
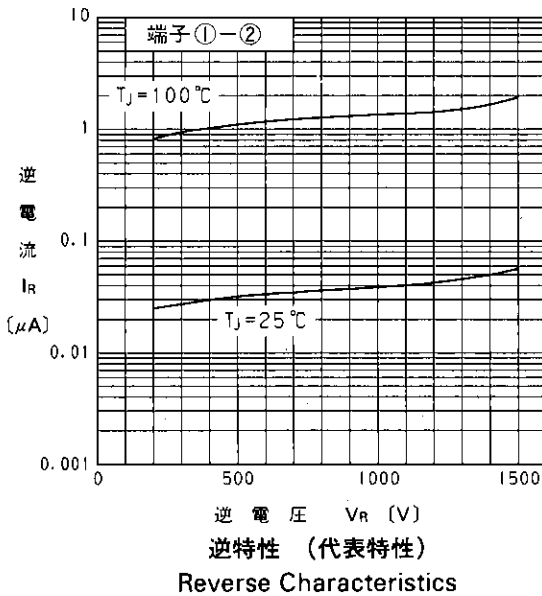
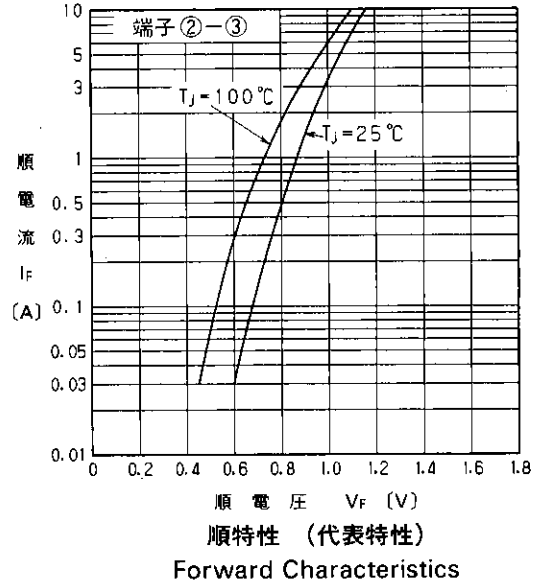
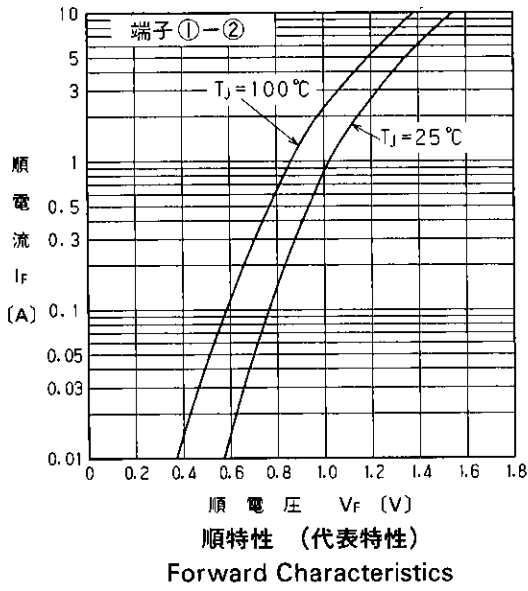
Items	Symbols	Conditions	Ratings		Units
			①~②	②~③	
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}		400	1500	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	V_{RSM}		400	1500	V
平均出力電流 Average Output Current	I_O	方形波, duty = 1/2, $T_C = 105^\circ\text{C}$ Square wave	5.0		A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms 定格負荷状態より	50	50	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)

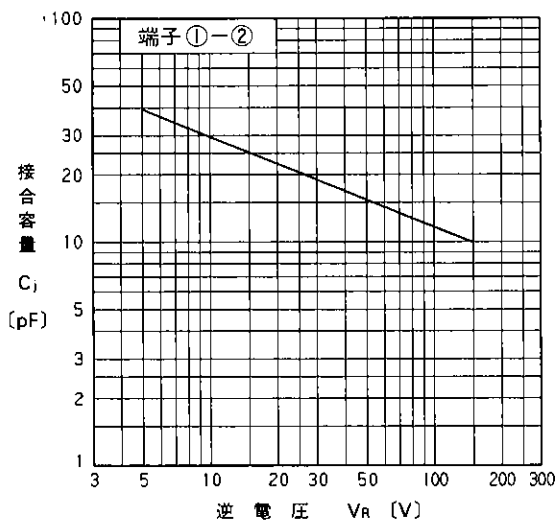
Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	Max.		Units
			①~②	②~③	
順電圧 Forward Voltage Drop	V_{FM}	$I_{FM} = 4\text{A}$	1.2	1.2	V
逆電流 Reverse Current	I_{RRM}	$V_R = V_{RRM}$	10	10	μA
逆回復時間 Reverse Recovery Time	t_{rr}	$I_{FM} = 0.1\text{A}, I_{RRM} = 0.1\text{A}$	0.3	1.5	μs
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	2.5		$^\circ\text{C}/\text{W}$

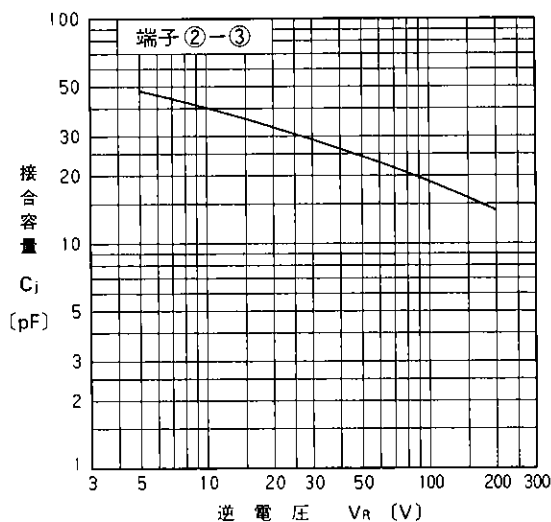
■特性曲線：Characteristics



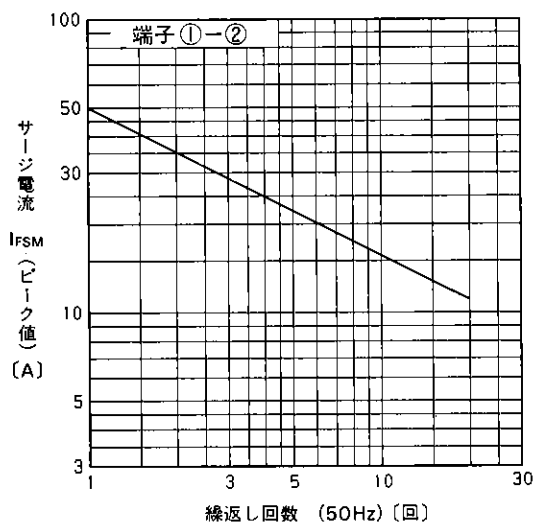
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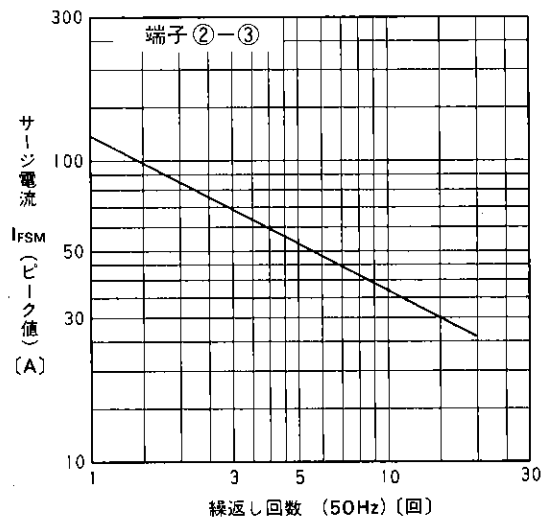
接合容量特性 (代表特性)
Junction Capacitance Characteristics



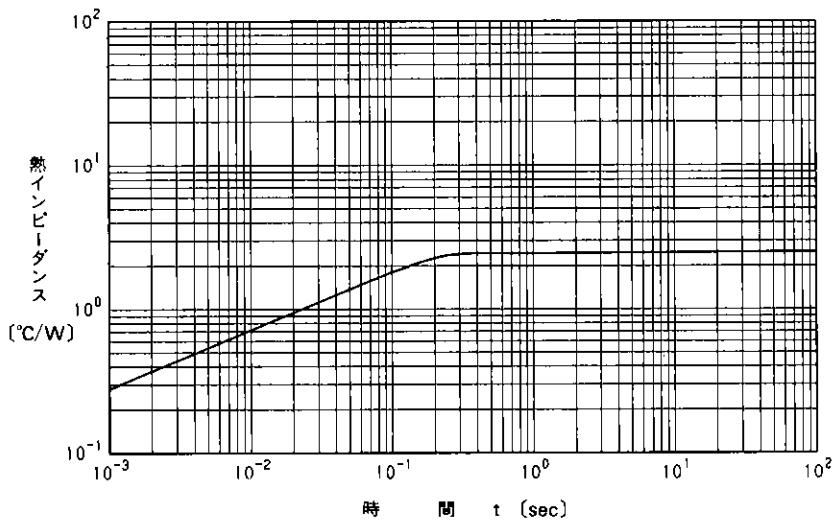
接合容量特性 (代表特性)
Junction Capacitance Characteristics



サージ電流耐量
Surge Capability



サージ電流耐量
Surge Capability



過渡熱インピーダンス
Transient Thermal Impedance