

低損失超高速ダイオード

LOW LOSS SUPER HIGH SPEED RECTIFIER

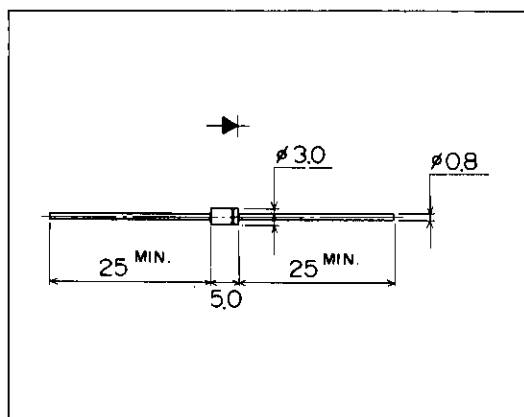
■特長：Features

- 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.

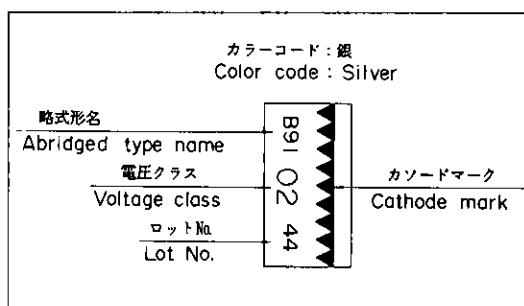
■用途：Applications

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

■外形寸法：Outline Drawings



■表示：Marking



■定格と特性：Maximum Ratings and Characteristics

●絶対最大定格：Absolute Maximum Ratings

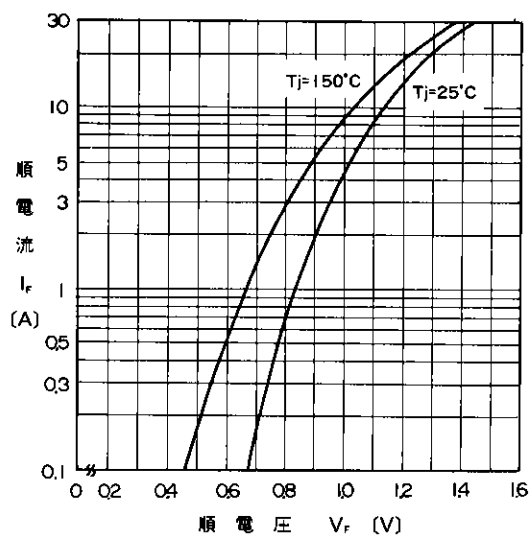
Items	Symbols	Conditions	Ratings	Units
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}		200	V
平均順電流 Average Forward Current	$I_{F(AV)}$	方形波 duty = $\frac{1}{2}$, $T_a = 50^\circ\text{C}$ Square wave	1.0	A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms $T_j = 150^\circ\text{C}$	20	A
接合温度 Operating Junction Temperature	T_j		$-40 \sim +150$	$^\circ\text{C}$
保存温度 Storage Temperature	T_{stg}		$-40 \sim +150$	$^\circ\text{C}$

●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)

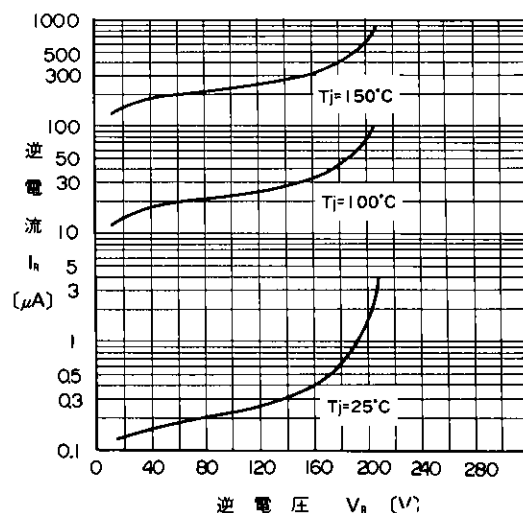
Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	$I_{FM} = 1.0\text{A}$	0.95	V
逆電流 Reverse Current	I_{RRM}	$V_R = V_{RRM}$	50	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

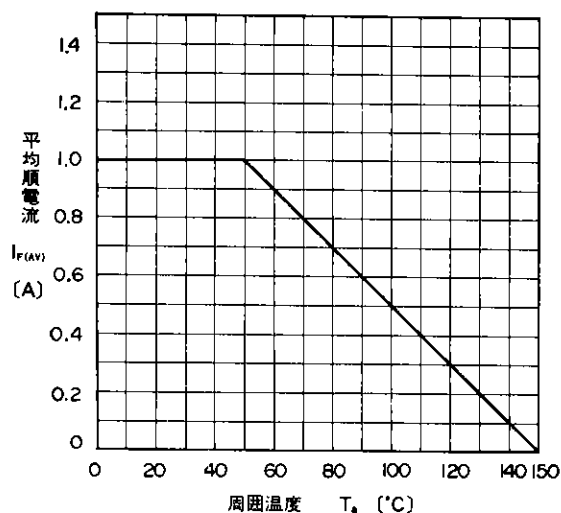
■特性曲線：Characteristics



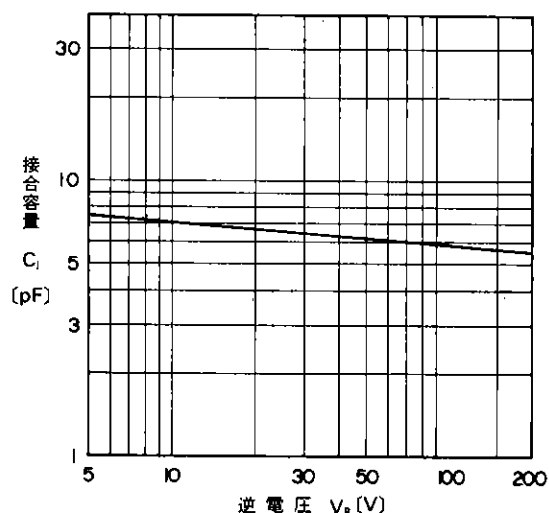
順特性 (代表特性)
Forward Characteristics



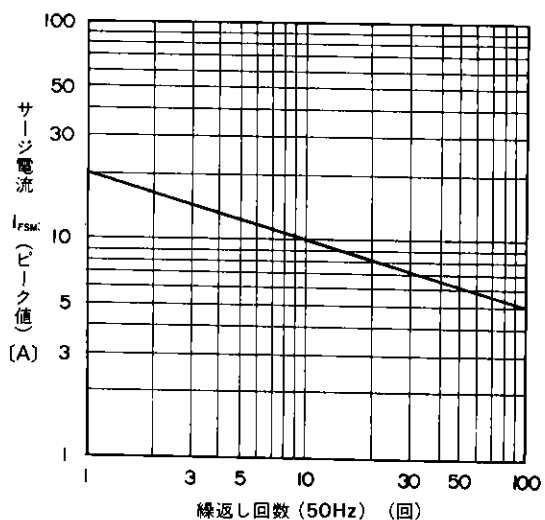
逆特性 (代表特性)
Reverse Characteristics



平均順電流—周囲温度特性
Current Derating ($I_{F(AV)}-T_a$)



接合容量特性 (代表特性)
Junction Capacitance



サージ電流耐量
Surge Capability

A

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