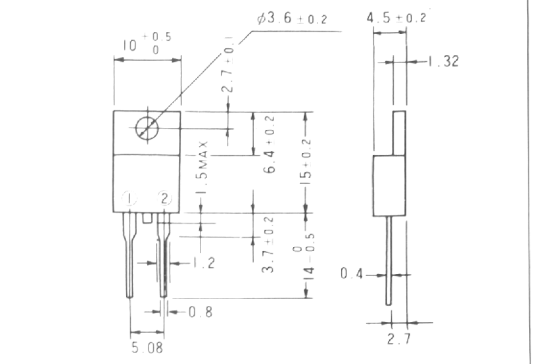
ERC90(5A)

富士小電力ダイオード

低損失超高速ダイオード

LOW LOSS SUPER HIGH SPEED RECTIFIER

■外形寸法：Outline Drawings



JEDEC	TO-220AB類似
EIAJ	SC-46類似

■特長：Features

●低V_F
Low V_F

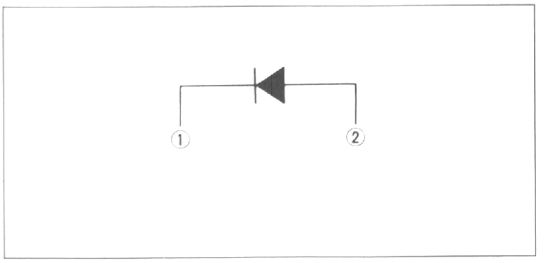
●スイッチングスピードが非常に速い
Super high speed switching.

●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.

■電極接続
Connection Diagram



■定格と特性：Maximum Ratings and Characteristics

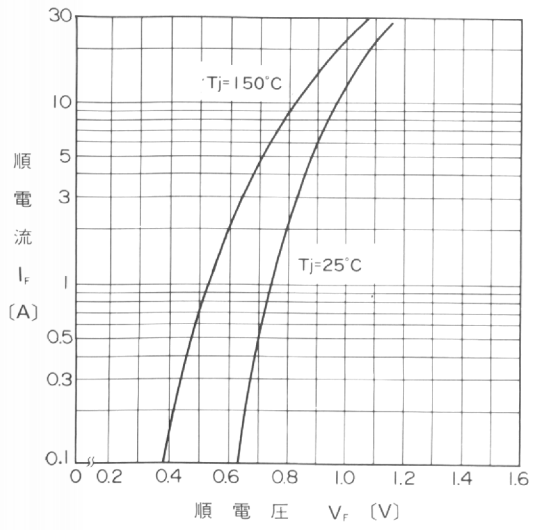
●絶対最大定格：Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings -02	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＝½, T_C＝125°C Square wave	5	A
サージ電流 Surge Current	I_{FSM}	正弦波　Sine wave 10ms	50	A
接合温度 Operating Junction Temperature	T_j		−40～＋150	°C
保存温度 Storage Temperature	T_{stg}		−40～＋150	°C

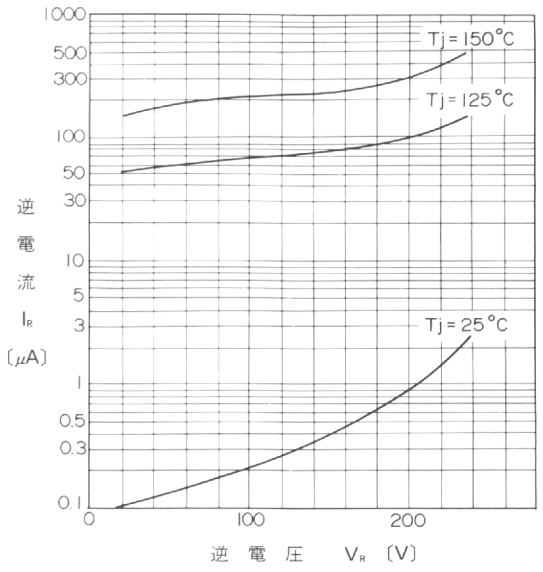
●電気的特性(特に指定がない限り周囲温度Ta＝25°Cとする)
Electrical Characteristics (Ta＝25°C Unless otherwise specified)

Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	I_{FM}＝5A	0.95	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＝0.1A, I_R＝0.2A, I_{rec}＝0.05A	35	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	3.0	°C/W

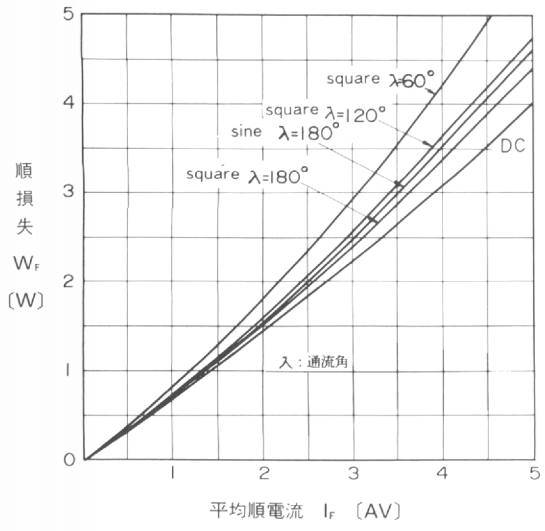
■特性曲線：Characteristics



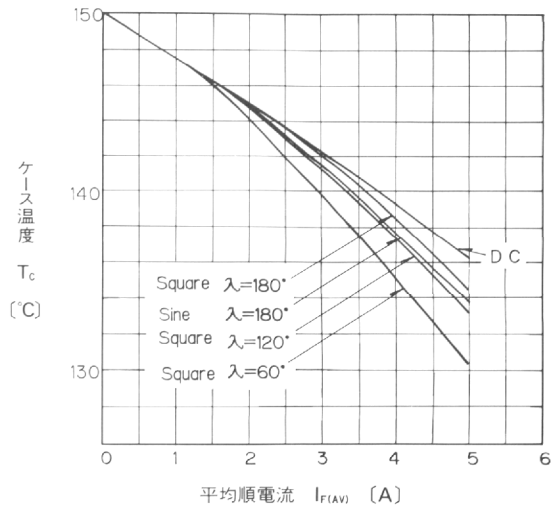
順特性 （代表特性）
Forward Characteristics



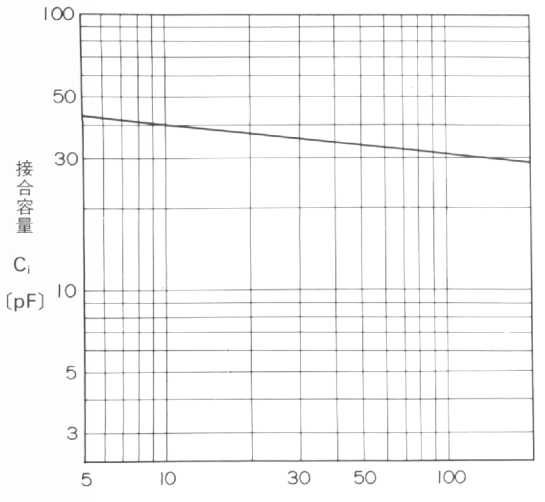
逆特性 （代表特性）
Reverse Characteristics



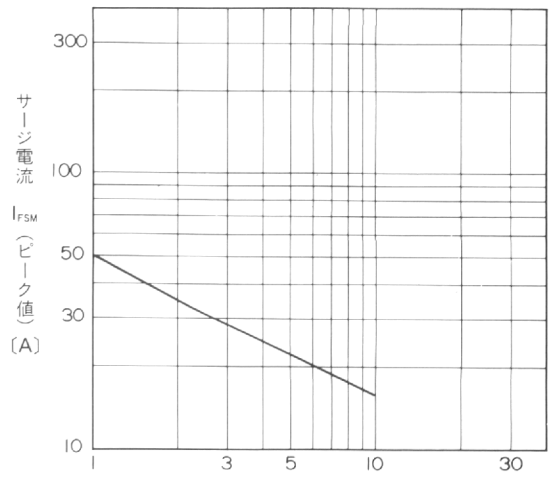
順損失特性
Forward Power Dissipation



平均順電流―ケース温度特性
Average Forward Current-Case Temperature

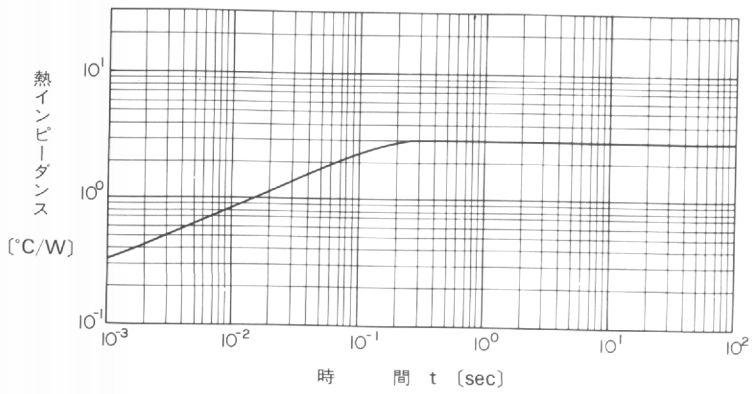


接合容量特性（代表特性）
Junction Capacitance



サージ電流耐量
Surge Capability

E 1



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