

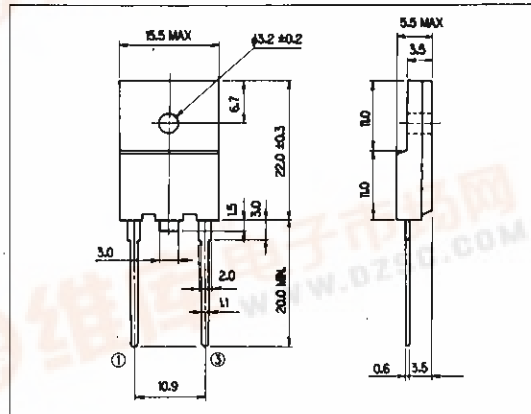
# ERE42M-15(5A)

富士小電力ダイオード

## 高速整流ダイオード

### FAST RECOVERY DIODE

## ■外形寸法：Outline Drawings



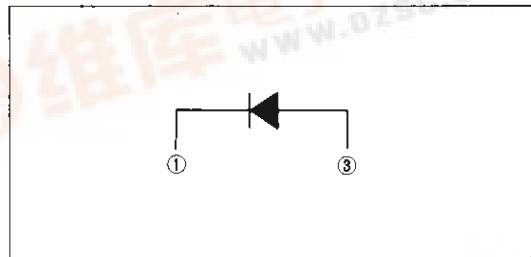
JEDEC	—
EIAJ	—

## ■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.
- 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

## ■電極接続

### Connection Diagram



## ■用途：Applications

- 高速スイッチング  
High speed switching.

## ■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	$V_{RRM}$		1500	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		1500	V
絶縁耐圧 Isolating Voltage	$V_{iso}$	一括端子・ケース間、AC1分間印加 Terminals-to-Case, AC, 1 min.	1500	V
平均出力電流 Average Output Current	$I_O$	方形波, duty = 1/2, $T_c = 120^\circ\text{C}$ 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	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	$^\circ\text{C}$

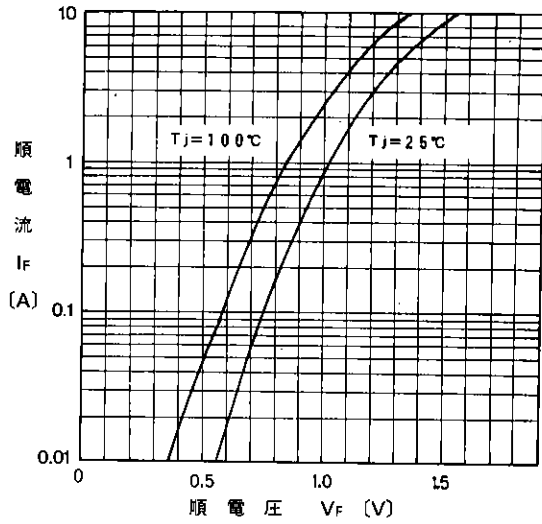
### ●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

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

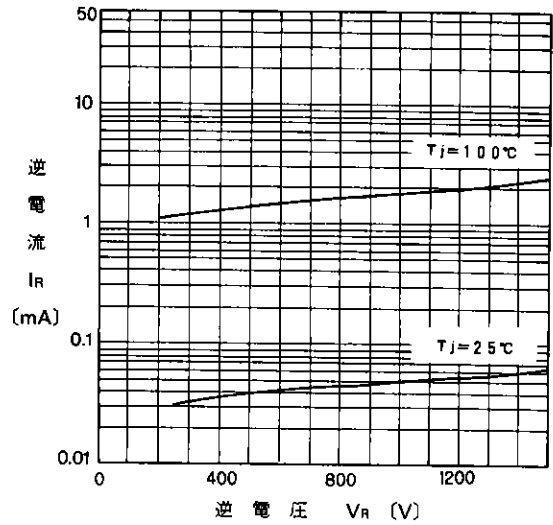
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM} = 5\text{A}$	1.6	V
逆電流 Reverse Current	$I_{RRM}$	$V_R = V_{RRM}$	10	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F = 0.1\text{A}, I_R = 0.1\text{A}$ ,	2.2	$\mu\text{s}$
熱抵抗 Thermal Resistance	$\theta_{j-c}$	接合・ケース間	0.5	$^\circ\text{C/W}$



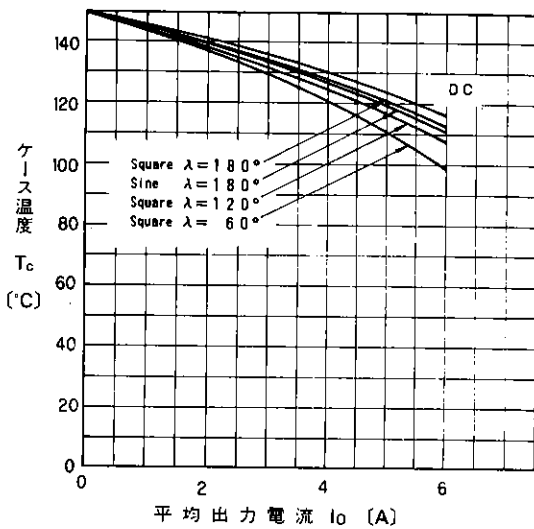
■特性曲線 : Characteristics



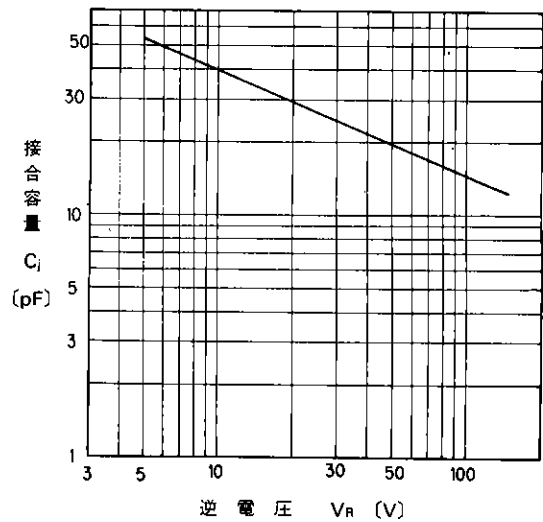
順特性 (代表特性)  
Forward Characteristics



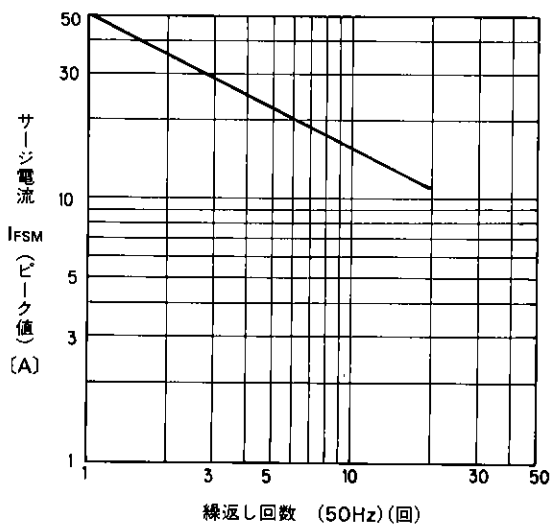
逆特性 (代表特性)  
Reverse Characteristics



平均出力電流-ケース温度特性  
Current Derating ( $I_{O(AV)}-T_C$ )

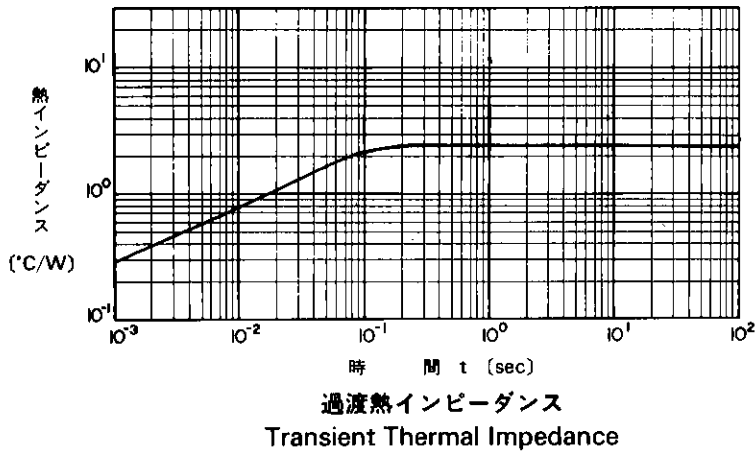


接合容量特性 (代表特性)  
Junction Capacitance



サージ電流耐量  
Surge Capability

A



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