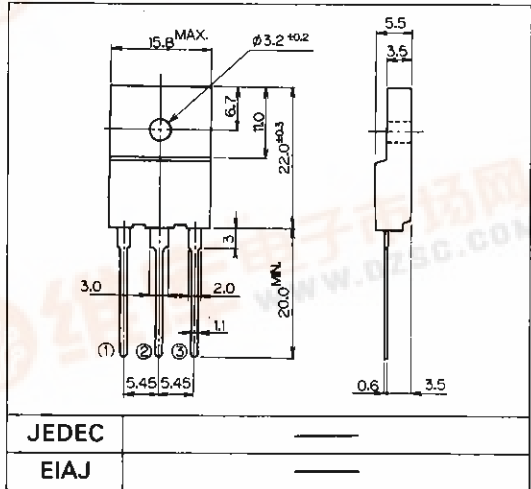


# ESAD25M(C,N,D) (15A) 富士小電力ダイオード

## 高速整流ダイオード

### FAST RECOVERY DIODE

## ■外形寸法：Outline Drawings



## ■特長：Features

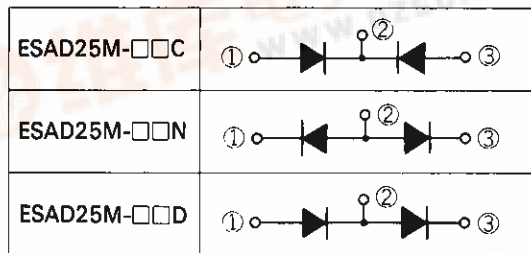
- 取り付け面が絶縁されたフルモードタイプ  
Insulated package by fully molding.
- メサ形のため耐圧が高い  
High voltage by mesa design.
- 高信頼性  
High reliability

## ■用途：Applications

- 高速スイッチング  
High speed 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		Units
			-02	-04	
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$		200	400	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		250	450	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, Tc=98°C Square wave	15*		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~+150		°C
保存温度 Storage Temperature	$T_{stg}$		-40~+150		°C

\*センタータップ平均出力電流

\* average forward current of centertap full wave connection

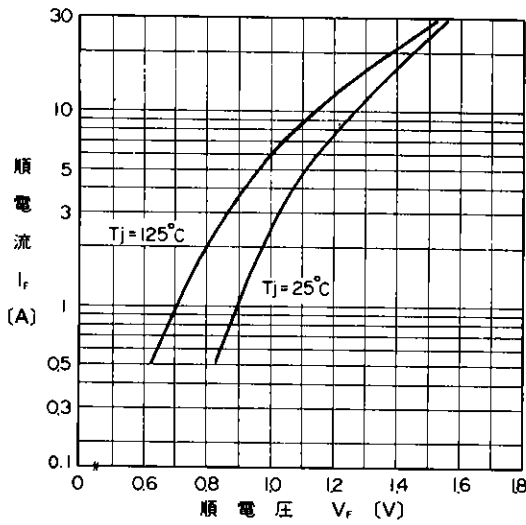
### ●電気的特性(特に指定がない限り周囲温度Ta=25°Cとする)

Electrical Characteristics (Ta=25°C Unless otherwise specified)

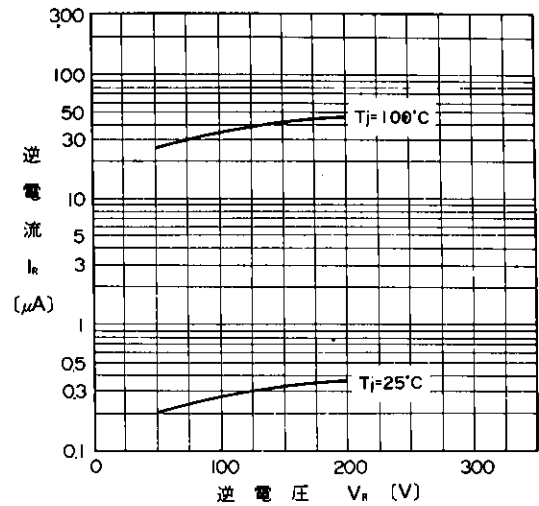
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	$V_{FM}$	$I_{FM}=8A$	1.3	V
逆電流 Reverse Current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu A$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F=0.1A, I_R=0.1A,$	0.4	$\mu s$
熱抵抗		接合・ケース間		



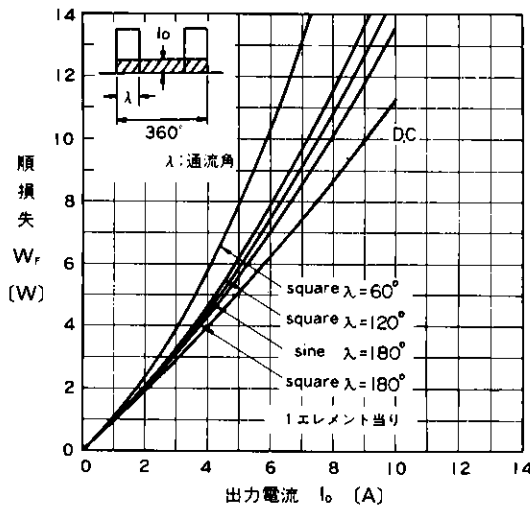
■特性曲線：Characteristics



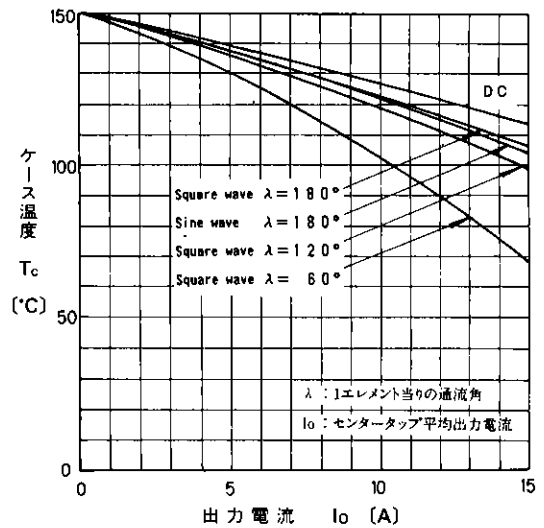
順特性 (代表特性)  
Forward Characteristics



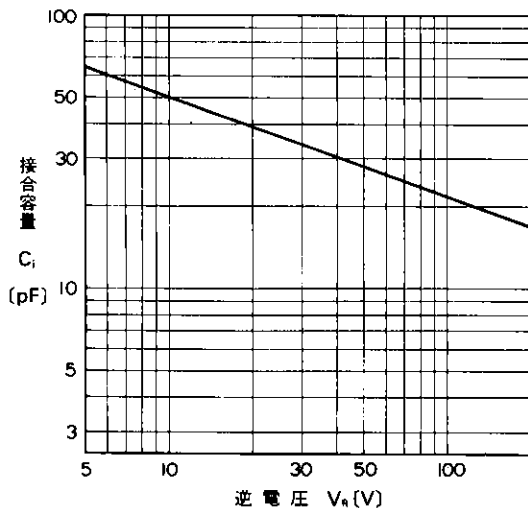
逆特性 (代表特性)  
Reverse Characteristics



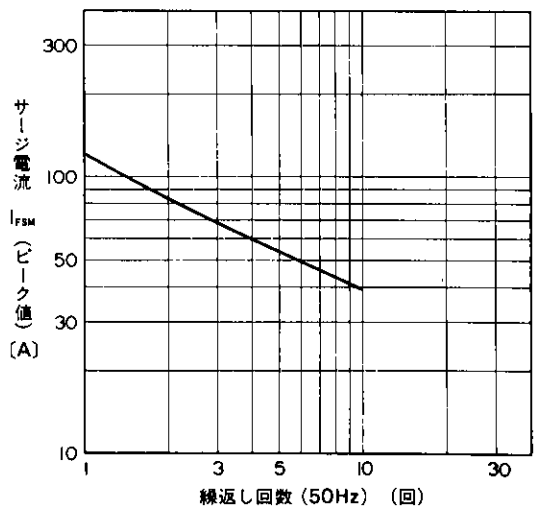
順損失特性  
Forward Power Dissipation



出力電流-ケース温度特性  
Output Current-Case Temperature

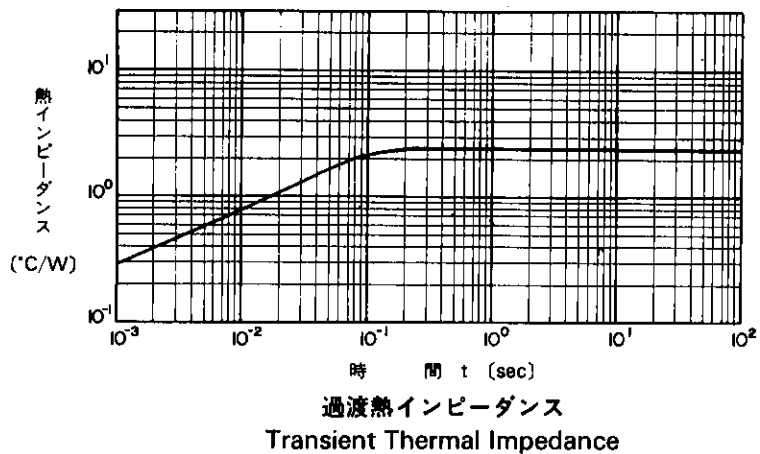


接合容量特性(代表特性)  
Junction Capacitance Characteristics



サージ電流耐量  
Surge Capability

A



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