

# ESAC39M(C, N, D)(5A) 富士小電力ダイオード

## 高速整流ダイオード

### FAST RECOVERY DIODE

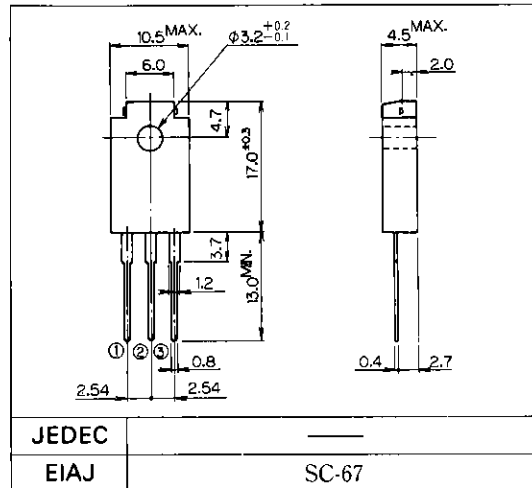
#### ■特長 : Features

- 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.
- スイッチングスピードが非常に速い  
Super high speed switching.
- ターンオン電圧が低い  
Low  $V_F$  in turn on
- 高信頼性  
High reliability

#### ■用途 : Applications

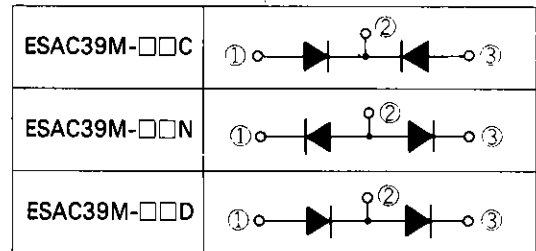
- 高速電力スイッチング  
High speed power switching.

#### ■外形寸法 : Outline Drawings



#### ■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
			-04	-06	
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	$V_{RRM}$		400	600	V
ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage	$V_{RSM}$		400	600	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=110°C Square wave	5*		A
サージ電流 Surge Current	$I_{FSM}$	正弦波 Sine wave 10ms	20		A
接合温度 Operating Junction Temperature	$T_J$		-40~+150		°C
保存温度 Storage Temperature	$T_{stg}$		-40~+150		°C

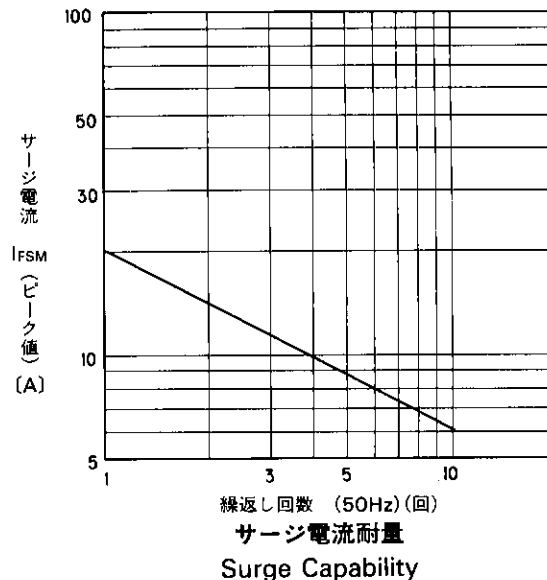
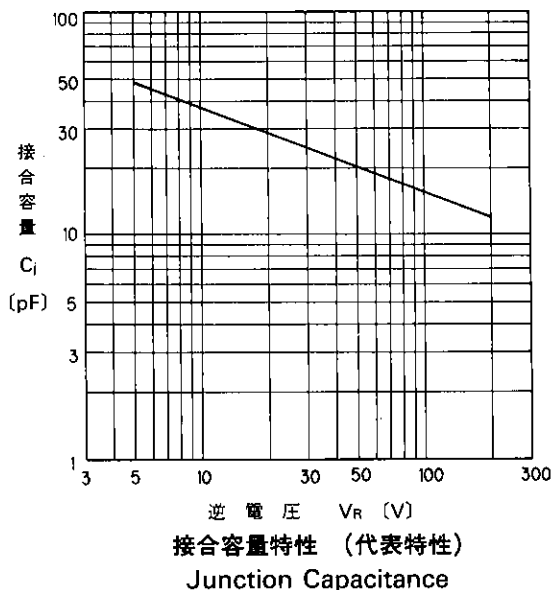
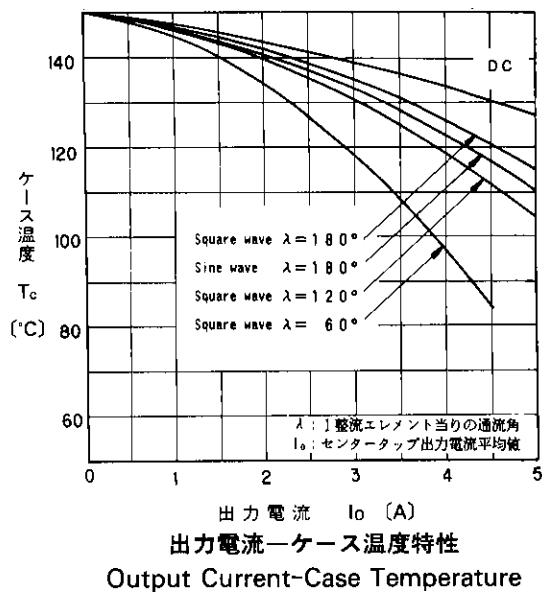
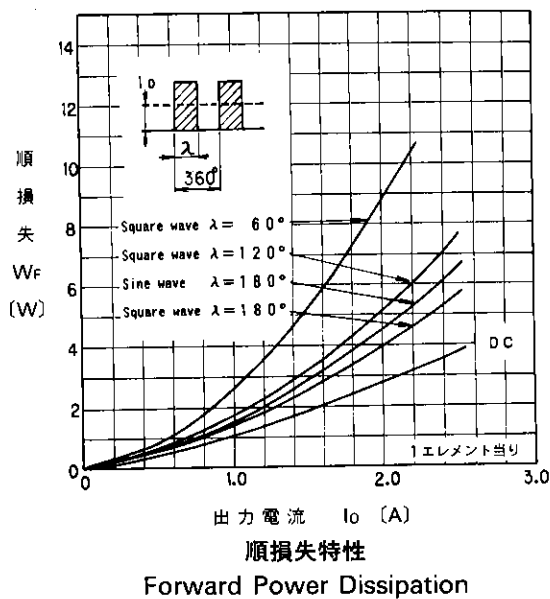
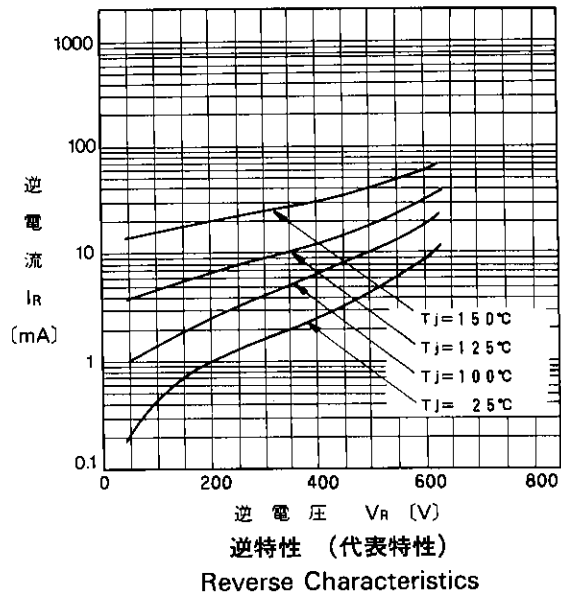
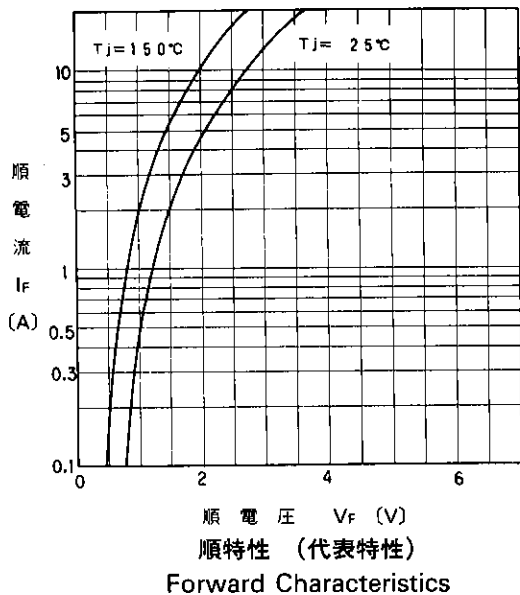
\*センタータップ平均出力電流

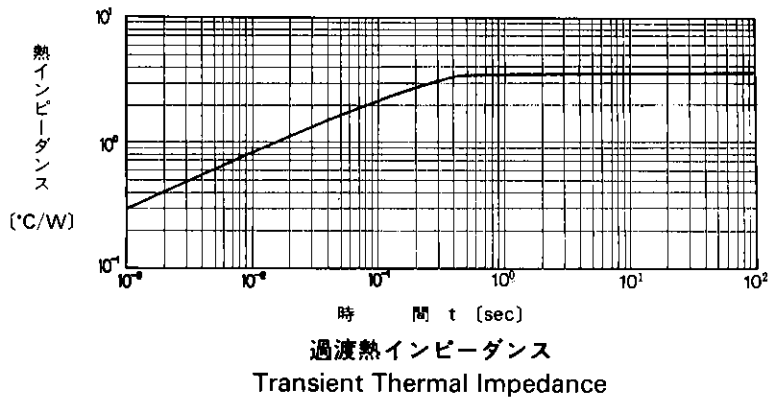
\* average forward current of centertap full wave connection

##### ●電気的特性(特に指定がない限り周囲温度 $T_a=25^\circ\text{C}$ 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	$V_{FM}$	$I_{FM}=2\text{A}$	2.5	V
逆電流 Reverse Current	$I_{RRM}$	$V_R=V_{RRM}$	100	$\mu\text{A}$
逆回復時間 Reverse Recovery Time	$t_{rr}$	$I_F=0.1\text{A}$ , $I_R=0.2\text{A}$ , $I_{rec}=0.05\text{A}$	50	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	3.5	°C/W





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