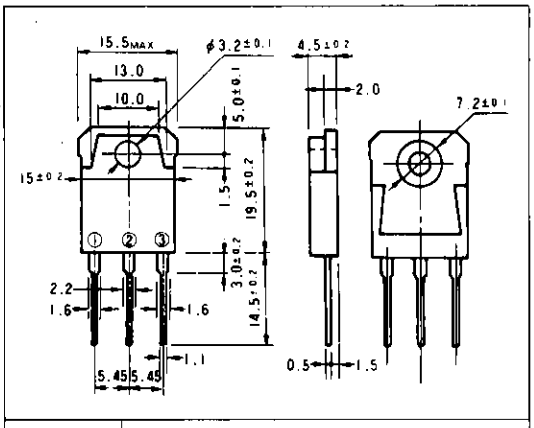
ESAD39(C,N,D)(10A) 富士小電力ダイオード

高速整流ダイオード

FAST RECOVERY DIODE

■外形寸法：Outline Drawings



JEDEC	——
EIAJ	SC-65

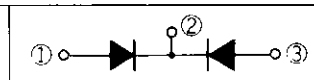
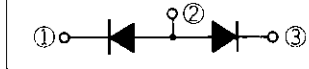
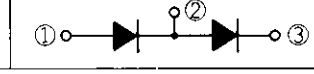
■特長：Features

- **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.

■電極接続
Connection Diagram

ESAD39-□□C	
ESAD39-□□N	
ESAD39-□□D	

■定格と特性：Maximum Ratings and Characteristics

●絶対最大定格：Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings -04	Ratings -06	Units
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
平均出力電流 Average Output Current	I_O	方形波, duty=½, Tc=98°C Square wave	10*		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

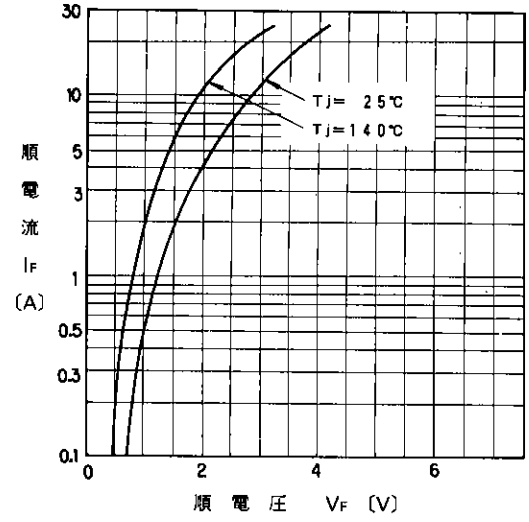
＊センタータップ平均出力電流
＊average forward current of centertap full wave connection

●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)

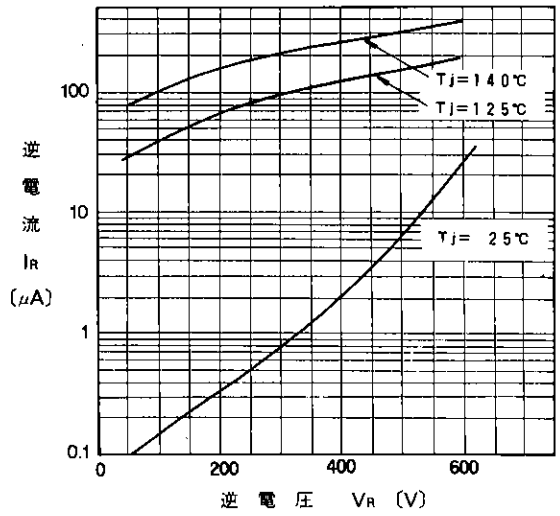
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	I_{FM}=4A	2.5	V
逆電流 Reverse Current	I_{RRM}	$V_R=V_{RRM}$	100	μA
逆回復時間 Reverse Recovery Time	t_{rr}	I_F=0.1A, I_R=0.2A, I_{rec}=0.05A	50	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 junction to case	2.0	°C/W

A

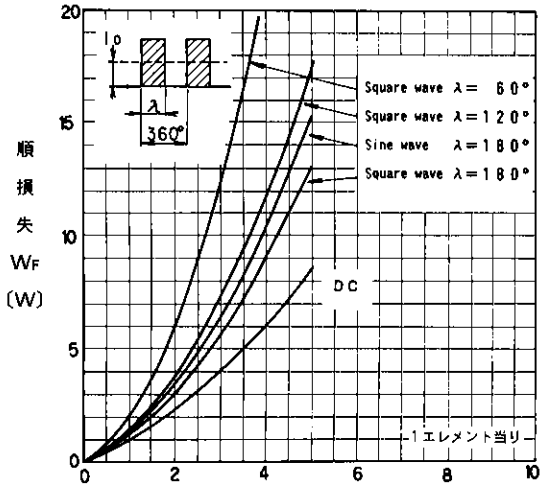
■特性曲線：Characteristics



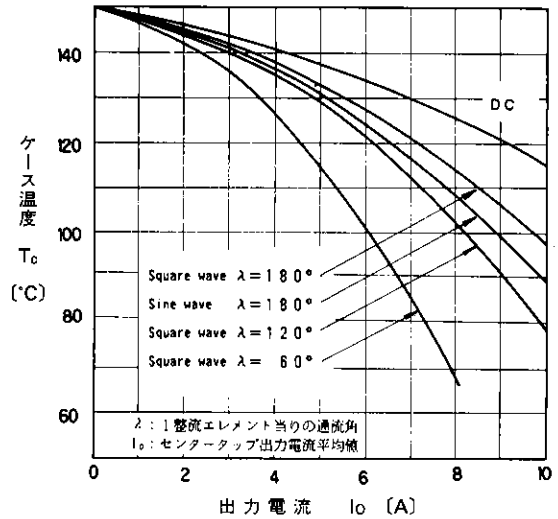
順特性 （代表特性）
Forward Characteristics



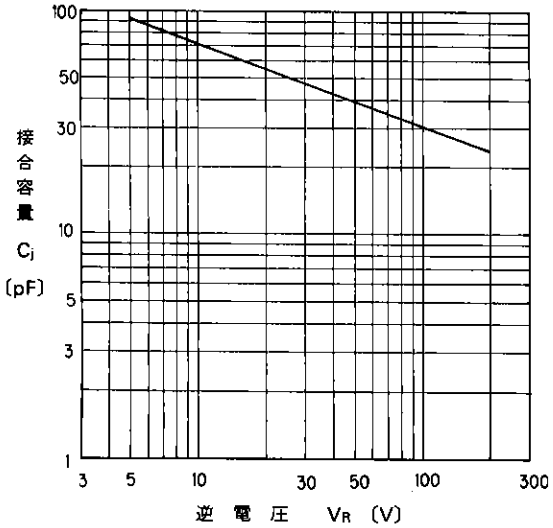
逆特性 （代表特性）
Reverse Characteristics



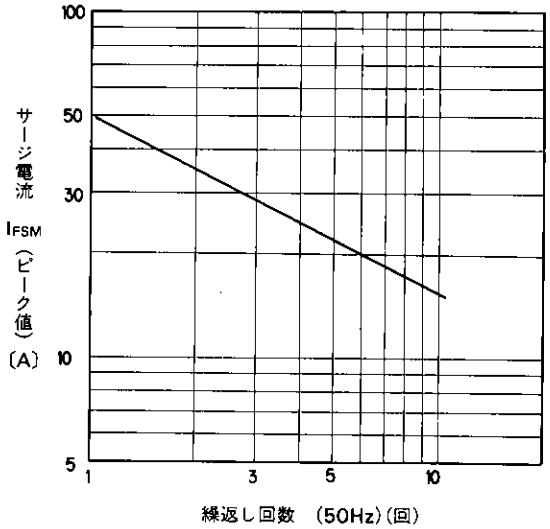
順損失特性
Forward Power Dissipation



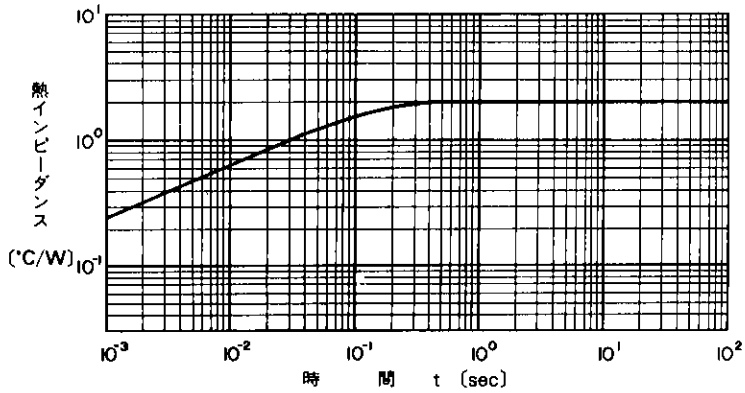
出力電流―ケース温度特性
Output Current-Case Temperature



接合容量特性 （代表特性）
Junction Capacitance



サージ電流耐量
Surge Capability



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

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