

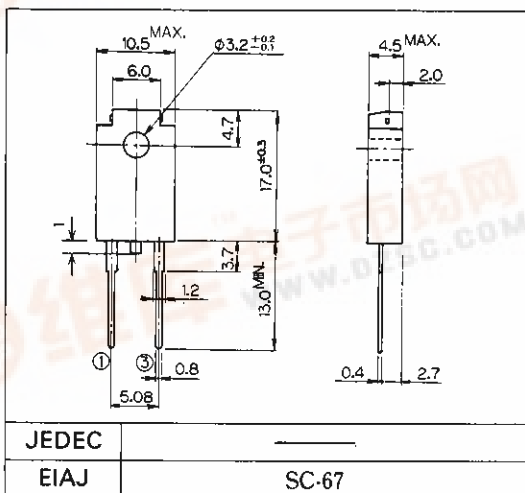
YG912S2(10A)

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



■特長：Features

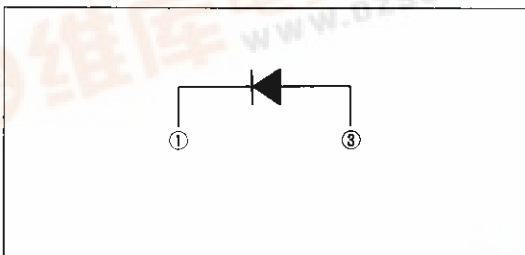
- 取り付け面が絶縁されたフルモールドタイプ
Insulated package by fully molding.
- 低 V_F
Low V_F
- スイッチングスピードが非常に速い
Super high speed switching.
- プレーナー技術による高信頼性
High reliability by planer design.

■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	Units
ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}		200	V
平均出力電流 Average Output Current	I_O	矩形波, duty = $\frac{1}{2}$, $T_C = 116^\circ\text{C}$ Rectangle wave	10	A
サージ電流 Surge Current	I_{FSM}	正弦波 Sine wave 10ms	80	A
接合温度 Operating Junction Temperature	T_J		$-40 \sim +125$	$^\circ\text{C}$
保存温度 Storage Temperature	T_{STG}		$-40 \sim +125$	$^\circ\text{C}$

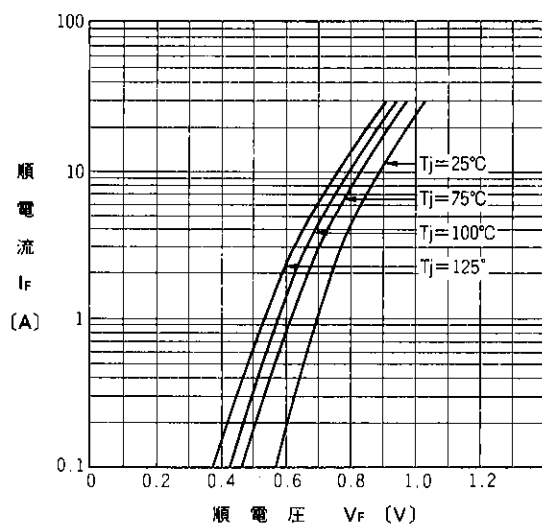
●電気的特性(特に指定がない限り周囲温度 $T_a = 25^\circ\text{C}$ とする)

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

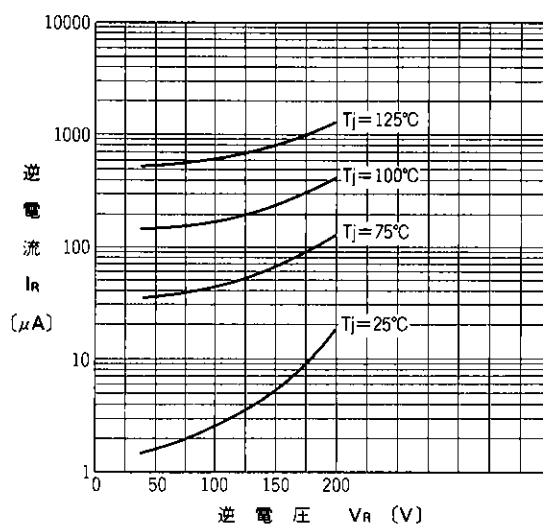
Items	Symbols	Conditions	Max.	Units
順電圧 Forward Voltage Drop	V_{FM}	$I_F = 10\text{A}$	0.98	V
逆電流 Reverse Current	I_{RRM}	$V_R = V_{RRM}$	200	μA
逆回復時間 Reverse Recovery Time	t_{rr}	$I_F = 0.1\text{A}$, $I_R = 0.1\text{A}$, $I_{rec} = 0.05\text{A}$	35	ns
熱抵抗 Thermal Resistance	$R_{th(j-c)}$	接合・ケース間 Junction to case	3.5	$^\circ\text{C/W}$



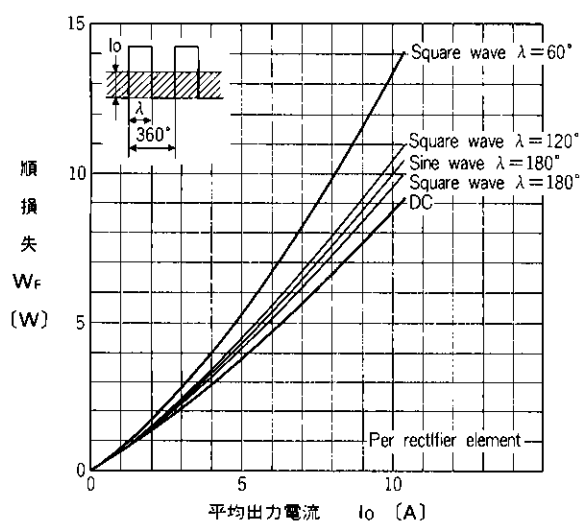
■特性曲線：Characteristics



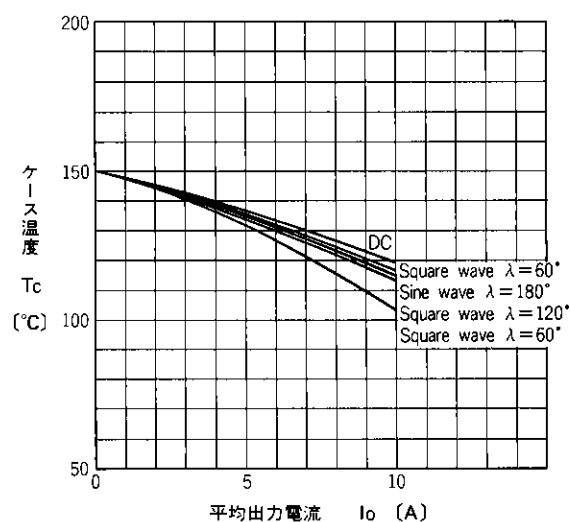
Forward Characteristics



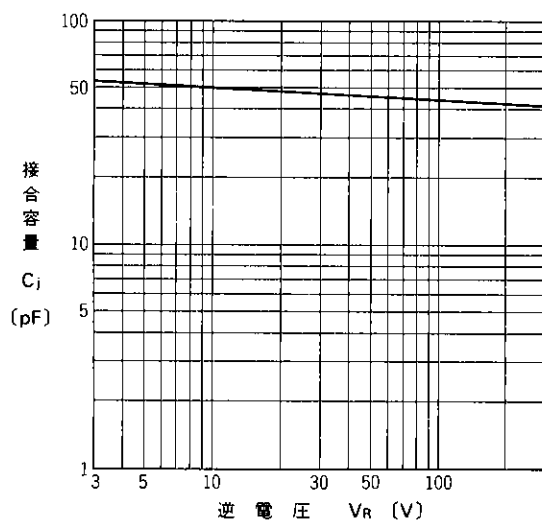
Reverse Characteristics



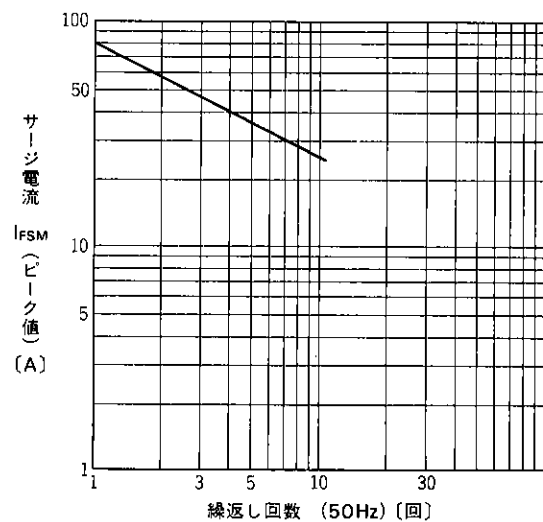
Forward Power Dissipation



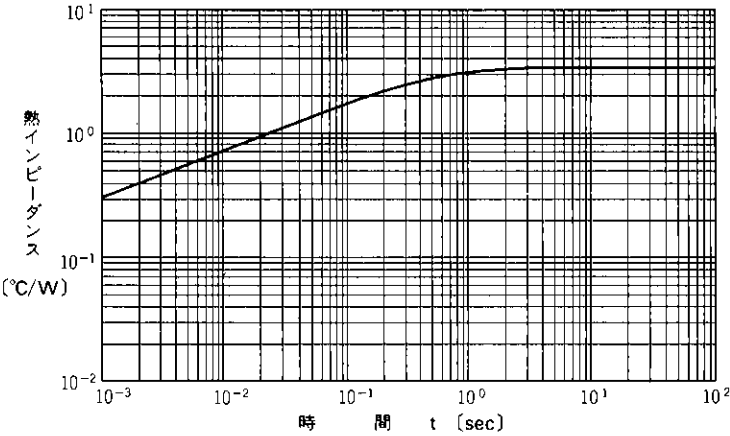
Output Current—Case Temperature



Junction Capacitance Characteristics



Surge Capability



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

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