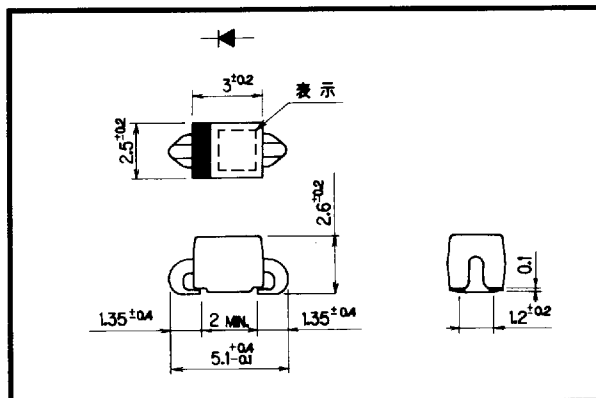


SCHOTTKY BARRIER DIODE

Outline Drawing



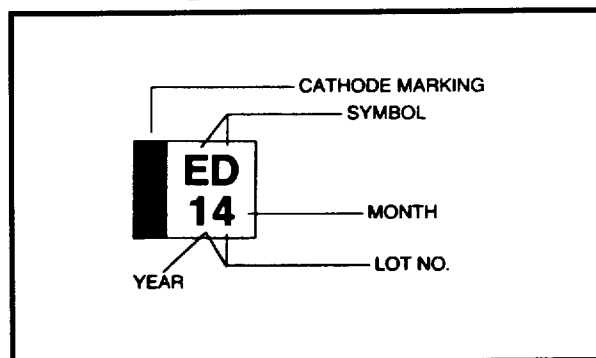
Features

- Surface mount device
- Low V_F
- Super high speed switching
- High reliability by planer design

Applications

- High speed power switching

Marking



Maximum Ratings & Characteristics

Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
Repetative Peak Reverse Voltage	V_{RRM}		90	V
Non-Repetative Peak Reverse Voltage	V_{RSM}	$t_w = 500ns$, duty 1/40	100	V
Average Output Current	I_o	$T_J = 110^{\circ}C$, Resistive Load	1.0*	A
Surge Current	I_{FSM}	Sine Wave, 10ms	30	A
Operating Junction Temperature	T_J		-40 to +125	$^{\circ}C$
Storage Temperature	T_{stg}		-40 to +125	$^{\circ}C$

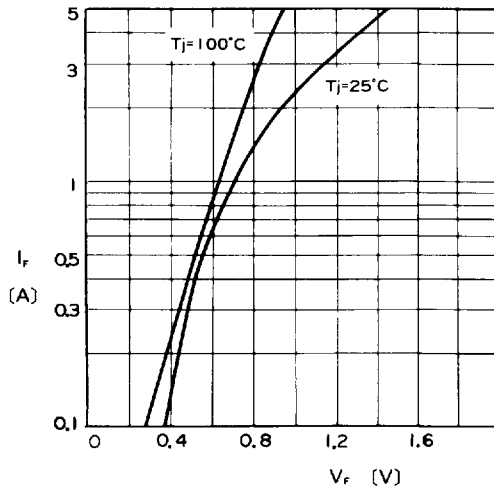
*Mounted to glass fabric base epoxy resin printed circuits.

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

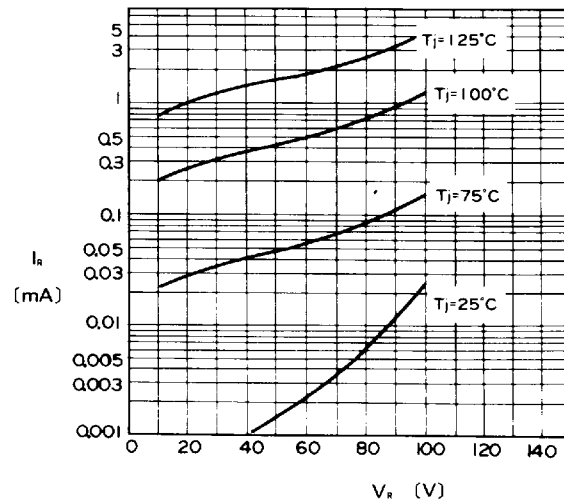
Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 1A$	0.85	V
Reverse Current	I_R	$V_R = V_{RRM}$	1.0	mA
Thermal Resistance	$R_{th(j-l)}$	Junction to Lead	120*	$^{\circ}C/W$



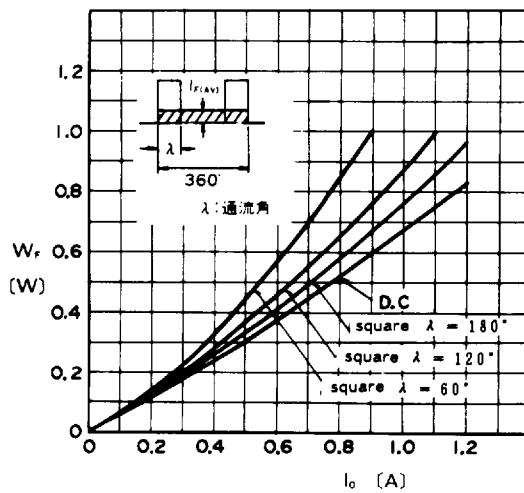
SC802-09 (1.0A)



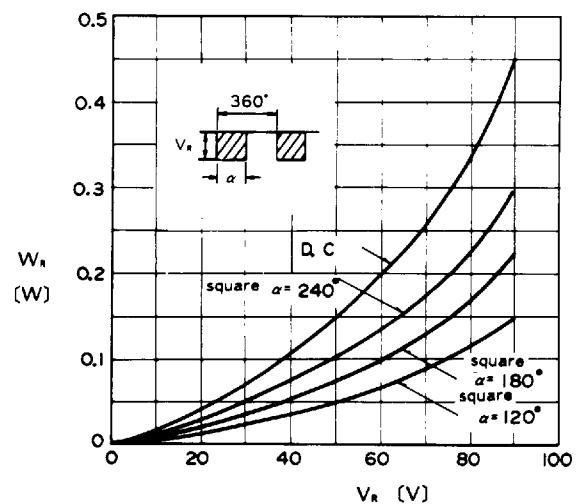
Forward Characteristics



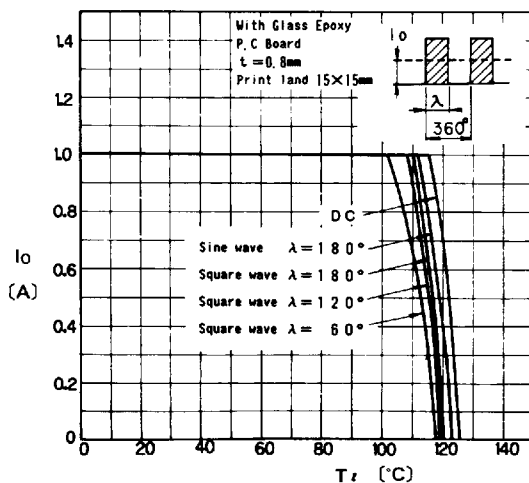
Reverse Characteristics



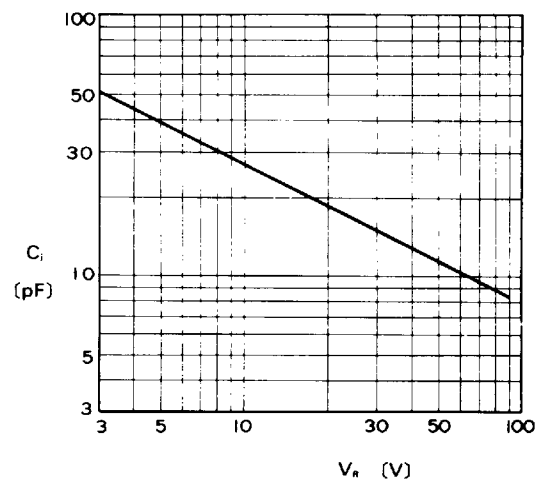
Forward Power Dissipation



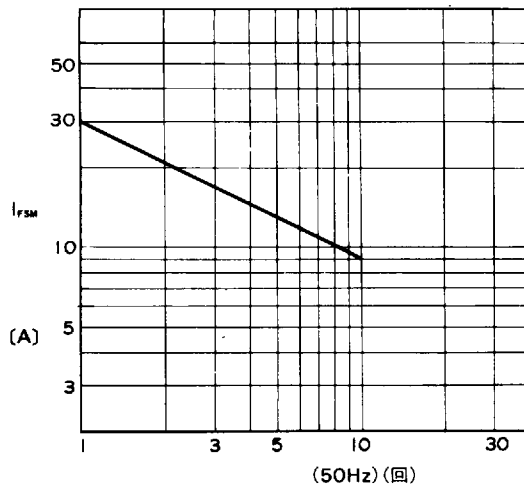
Reverse Power Dissipation



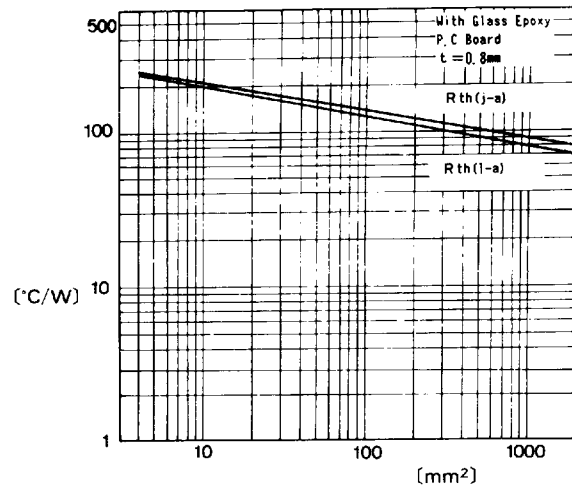
Current Derating (I_o - T_J)



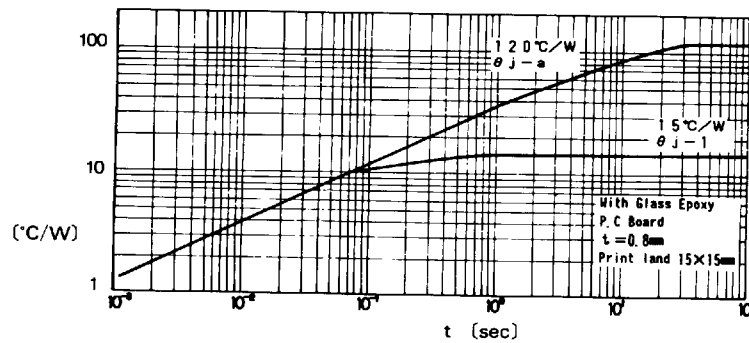
Junction Capacitance Characteristics



Surge Capability



Thermal Resistance Print Land



Transient Thermal Impedance