

SCHOTTKY BARRIER DIODE

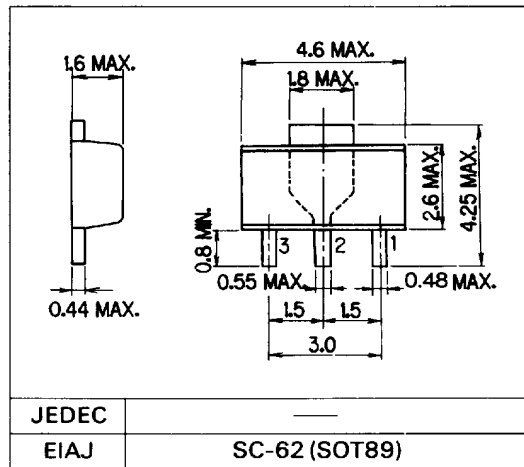
Features

- Surface mounting devices
- Low V_F
- Super high speed switching.
- High reliability by planer design.

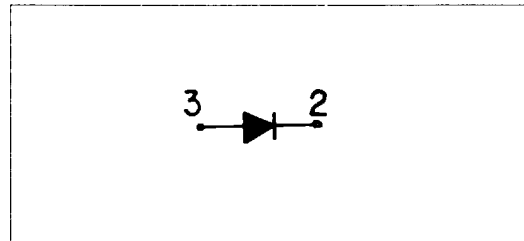
Applications

- High speed power switching.

Outline Drawings



Connection Diagram



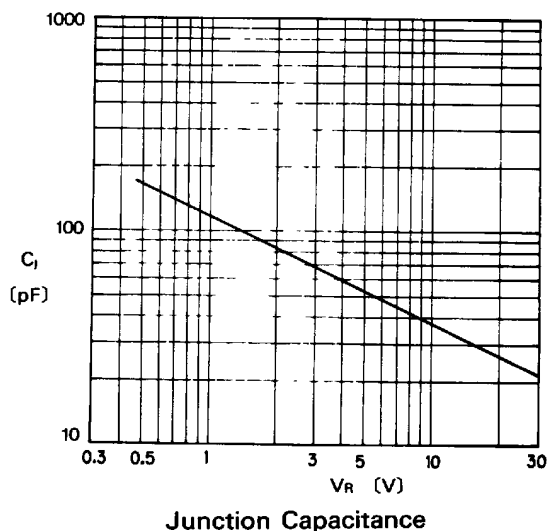
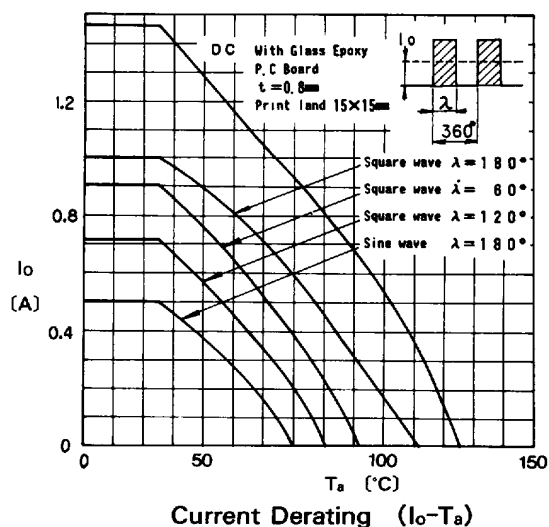
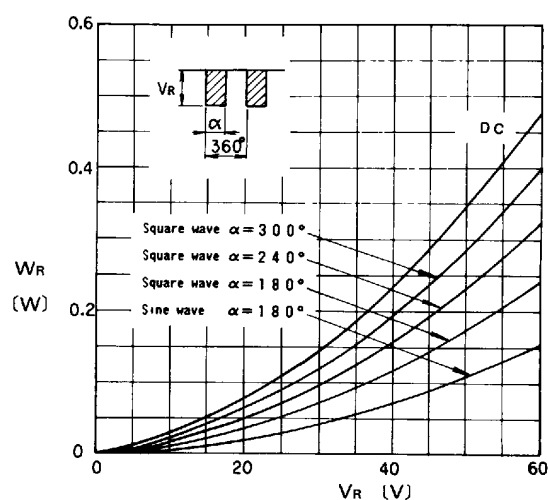
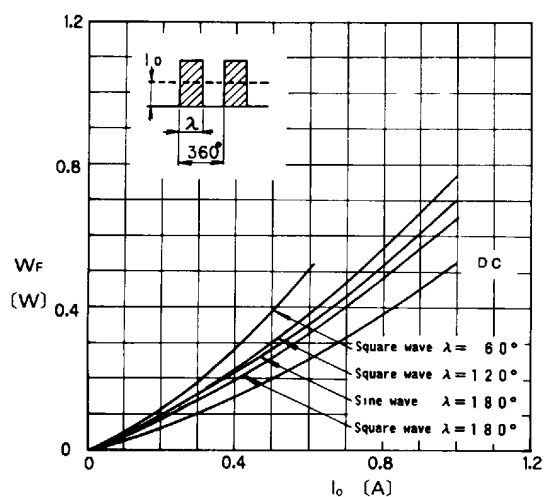
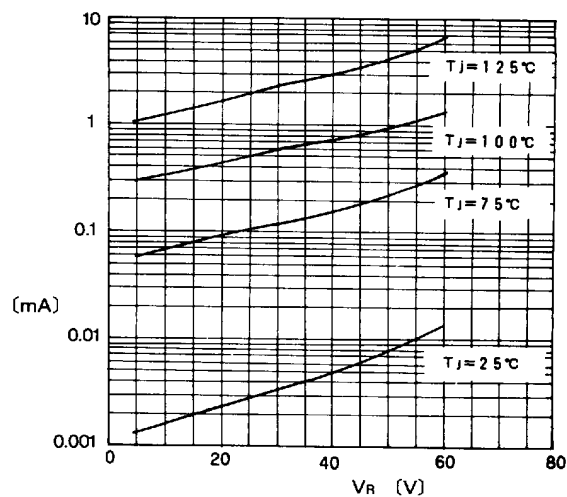
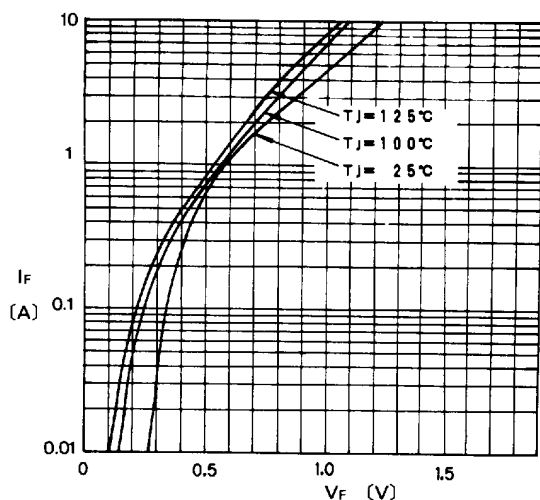
Maximum Ratings and Characteristics

Absolute Maximum Ratings

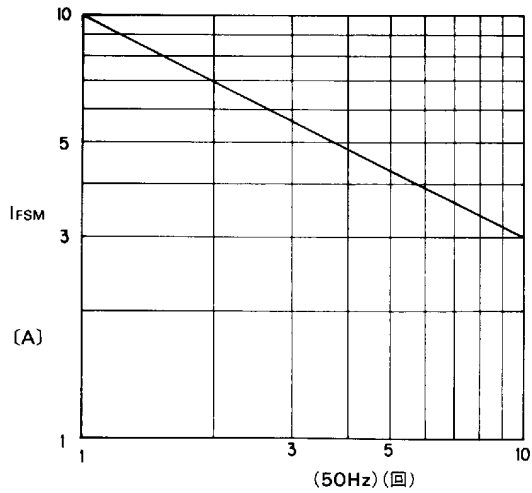
Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		60	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500\text{ns}$ duty = $\frac{1}{10}$	60	V
Average Output Current	I_O	$T_a = 25^\circ\text{C}$ Resistive Load	1.0*	A
Surge Current	I_{FSM}	10ms Sine wave	10	A
Operating Junction Temperature	T_J		$-40 \sim +125$	$^\circ\text{C}$
Storage Temperature	T_{stg}		$-40 \sim +125$	$^\circ\text{C}$

- Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified) * Mounted to glass fabric base epoxy resin printed circuits

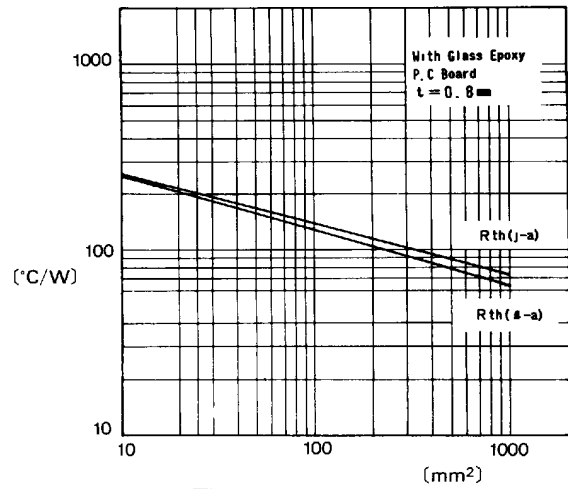
Items	Symbols	Conditions	Max.	Units
Forward Voltage Drop	V_{FM}	$I_{FM} = 1.0\text{A}$	0.58	V
Reverse Current	I_{RRM}	$V_R = V_{RRM}$	2.0	mA
Thermal Resistance	$R_{th(j-a)}$	junction to ambient	110*	$^\circ\text{C/W}$



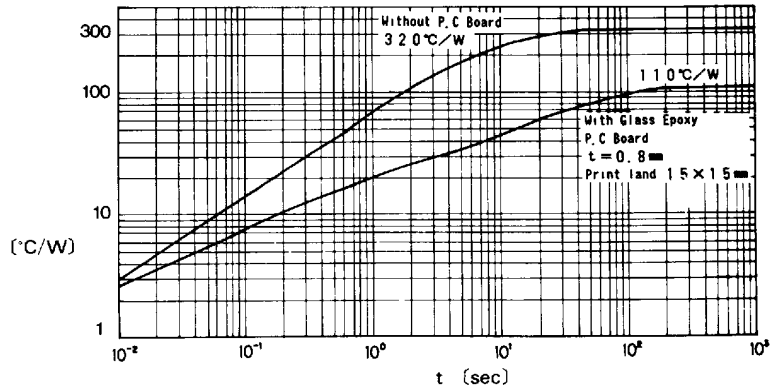
SE036(1.0A)



Surge Capability



Thermal Resistance Print Land



Transient Thermal Impedance