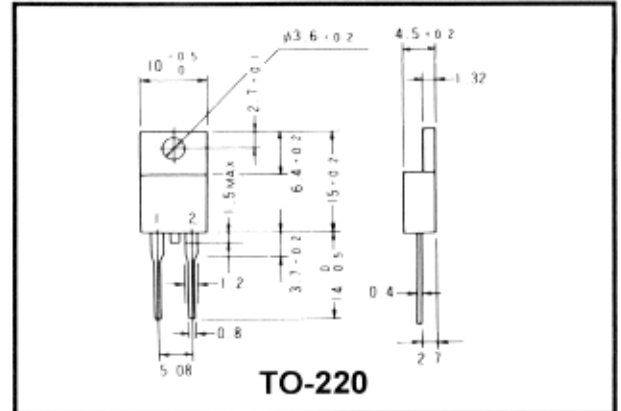


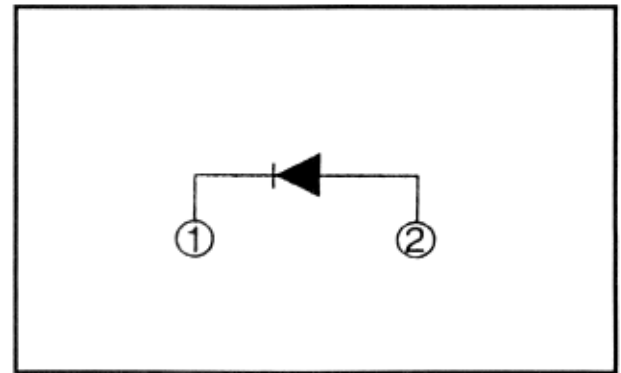
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SCHOTTKY BARRIER DIODE

Outline Drawing



Connection Diagram



Features

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

Applications

- High speed power switching

Maximum Ratings & Characteristics

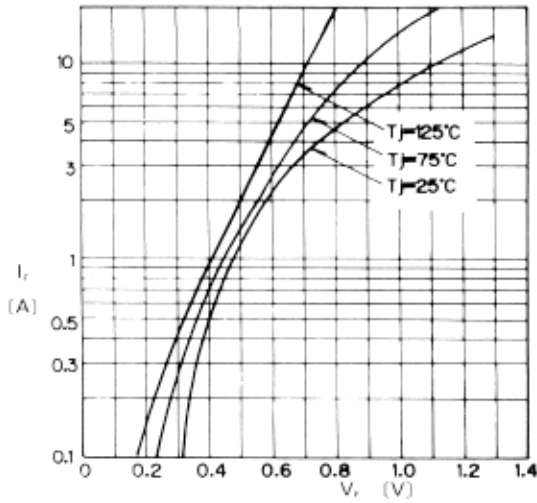
- Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Non-repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500\text{ns}$, duty 1/40	100	V
Average Forward Current	$I_{F(AV)}$	$T_c = 85^\circ\text{C}$, duty 1/2, Sq. wave	5	A
Surge Current	I_{FSM}	Sine Wave, 10ms	80	A
Operating Junction Temperature	T_J		-40 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +125	$^\circ\text{C}$

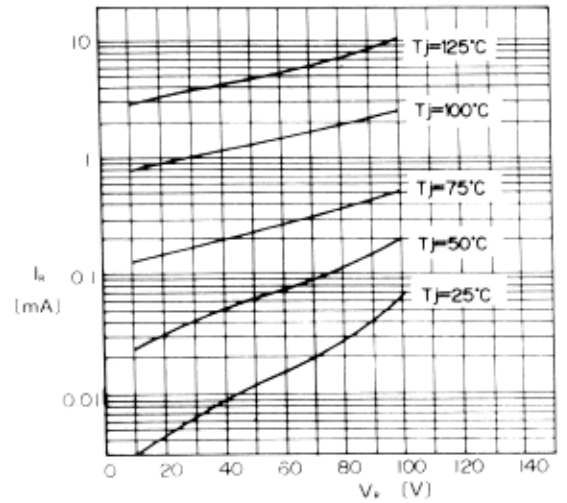
- Electrical Characteristics ($T_a = 25^\circ\text{C}$ Unless otherwise specified)

Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 4\text{A}$	0.9	V
Reverse Current	I_R	$V_R = V_{RRM}$	5.0	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to case	5.0	$^\circ\text{C/W}$

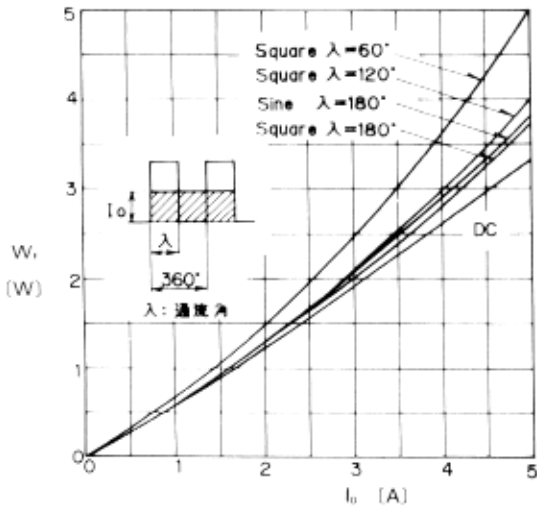
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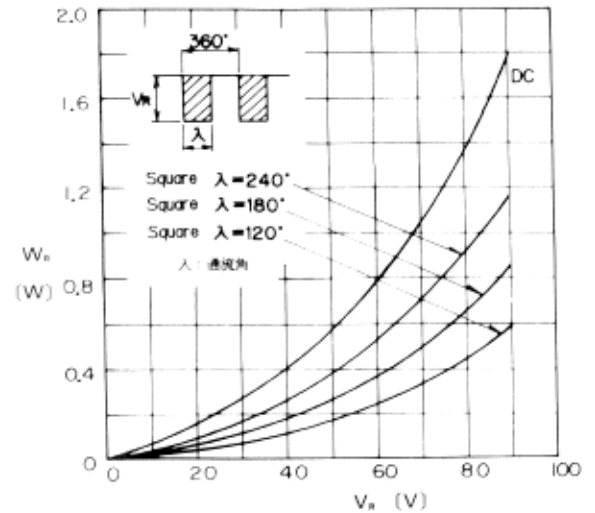
Forward Characteristics



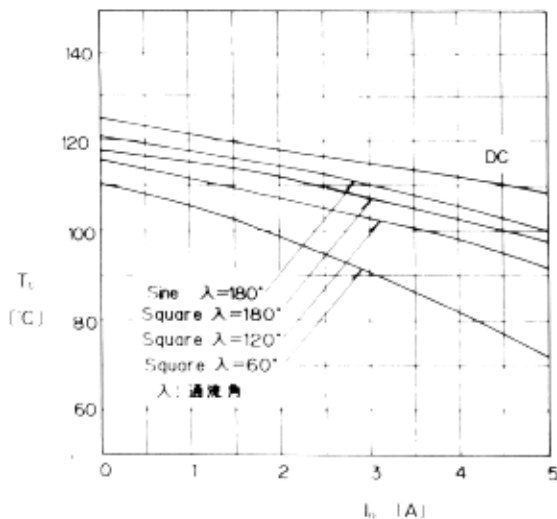
Reverse Characteristics



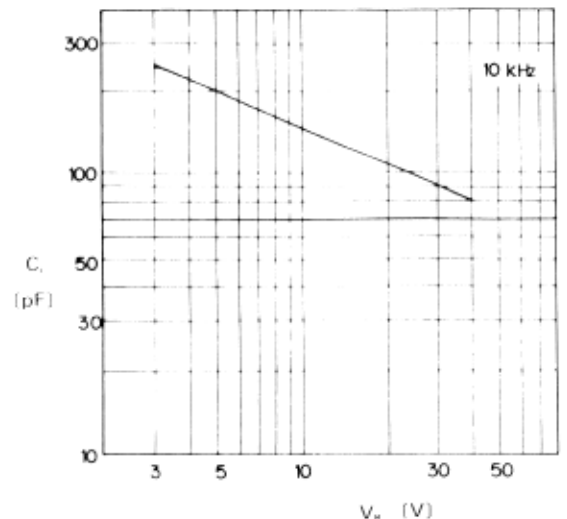
Forward Power Dissipation



Reverse Power Dissipation

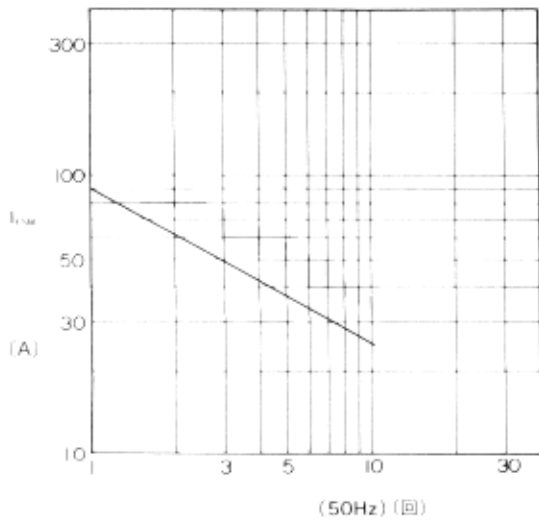


Average Output Current-Case Temperature

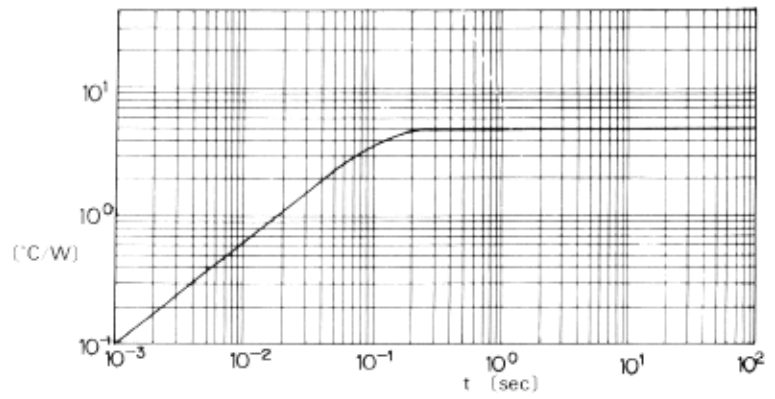


Junction Capacitance Characteristics

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Surge Capability



Transient Thermal Impedance