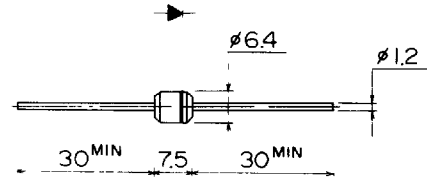


ERC84-009 (3A)

SCHOTTKY BARRIER DIODE

Outline Drawing



DO-201

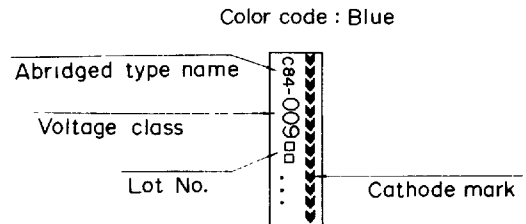
Features

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

Applications

- High speed power switching

Marking



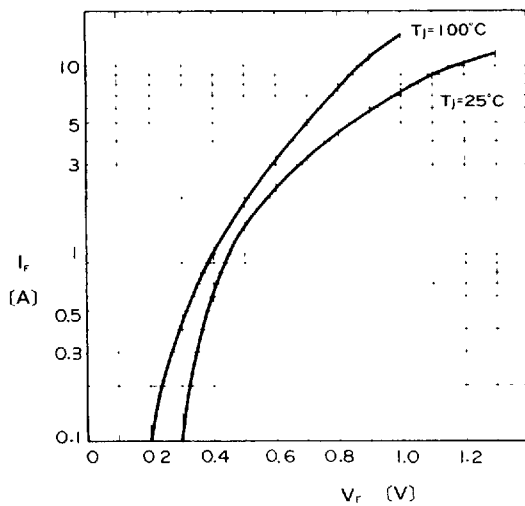
Maximum Ratings & Characteristics

- Absolute Maximum Ratings

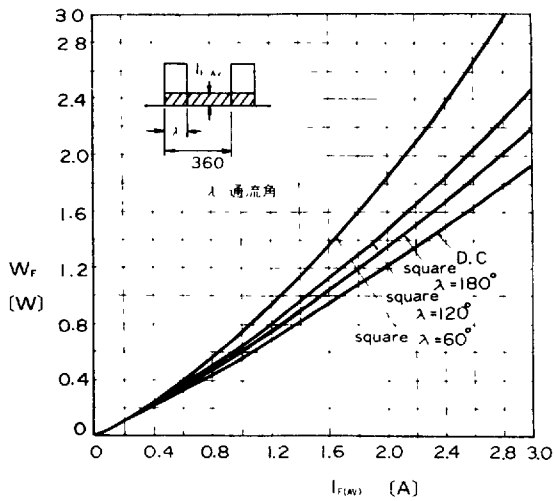
Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500ns$, duty 1/40	100	V
Average Forward Current	$I_{F(AV)}$	$T_J = 85^\circ C$, duty 1/2, Square wave	3.0	A
Surge Current	I_{FSM}	Sine Wave, 10ms	80	A
Operating Junction Temperature	T_J		-40 to +125	$^\circ C$
Storage Temperature	T_{stg}		-40 to +125	$^\circ C$

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

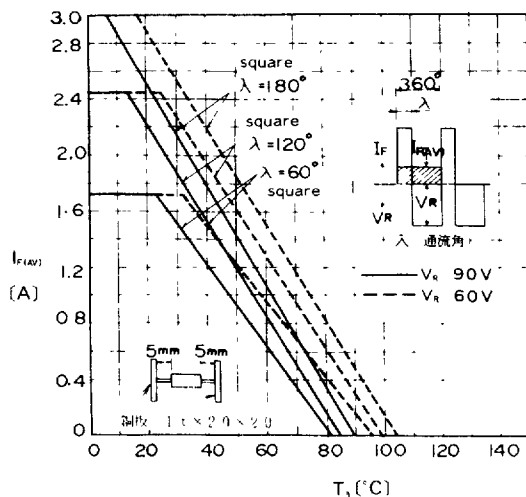
Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 3A$	0.8	V
Reverse Current	I_R	$V_R = V_{RRM}$	5.0	mA



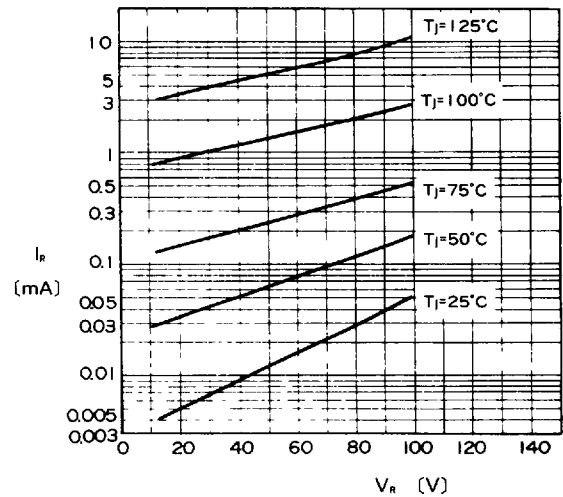
Forward Characteristics



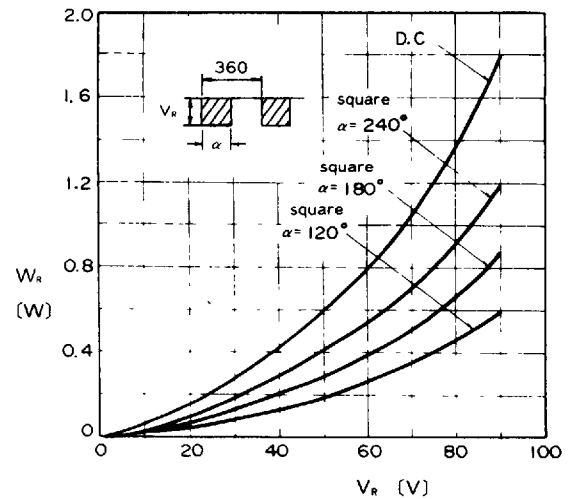
Forward Power Dissipation



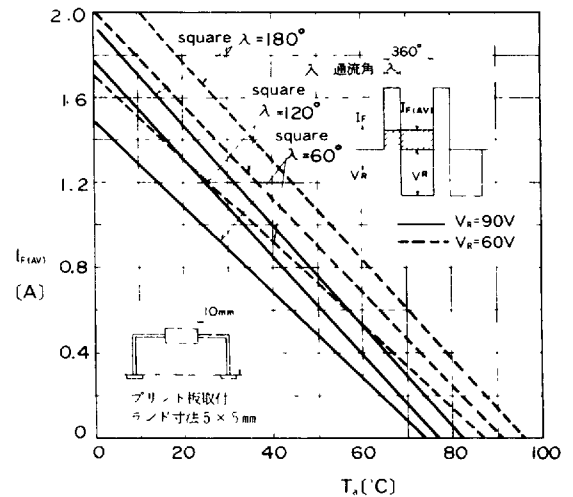
$I_{F(AV)} - T_J$ Characteristics



Reverse Characteristics



Reverse Power Dissipation

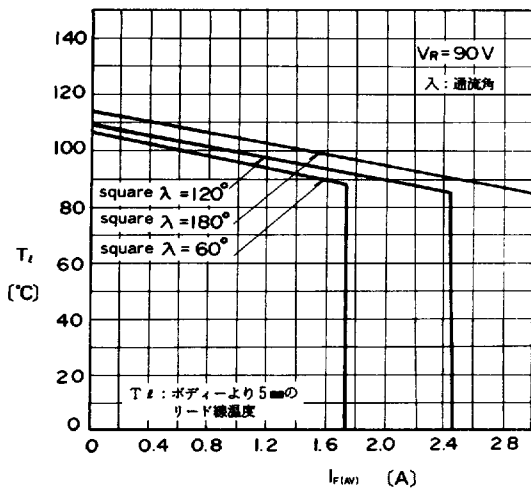


$I_{F(AV)} - T_J$ Characteristics

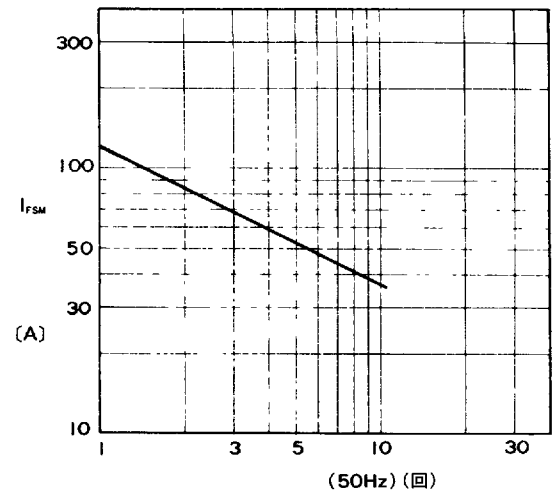
Collmer Semiconductor, Inc.
Phone: (214) 233-1589 - Fax: (214) 233-0481

2238792 0003918 197

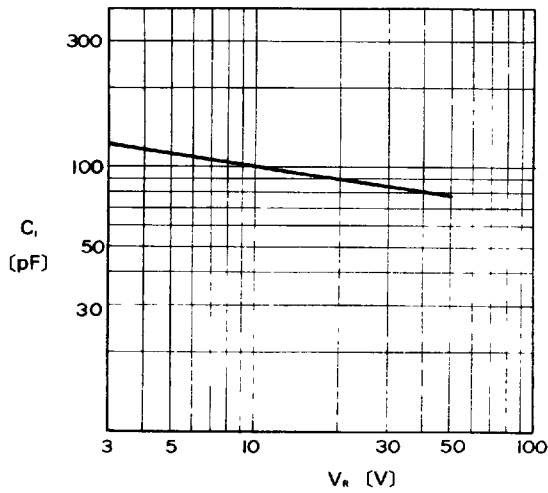
ERC84-009 (3A)



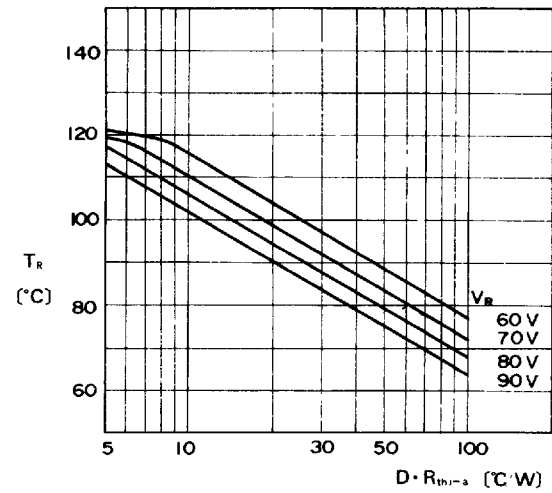
$I_{F(AV)}-T_j$ Characteristics



Surge Capability



Junction Capacitance Characteristics



$T_R-D \cdot R_{thj-a}$ Characteristics