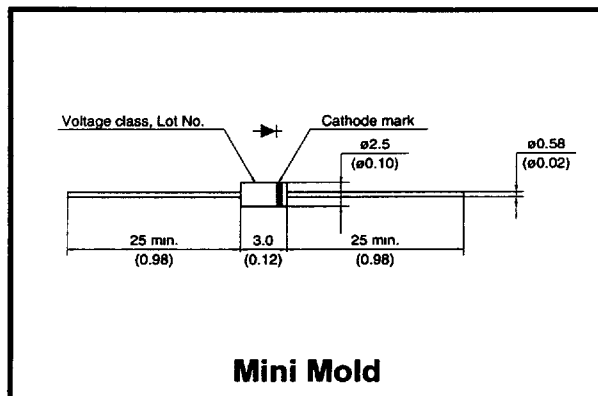


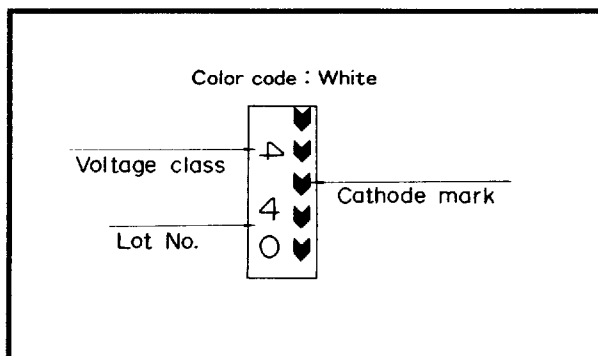
ERA85-009 (1A)

SCHOTTKY BARRIER DIODE

Outline Drawing



Marking



Features

- Low V_F
- Ultra small package, possible for 5mm pitch automatic insertion
- Super high speed switching
- High reliability by planer design

Applications

- High speed power switching

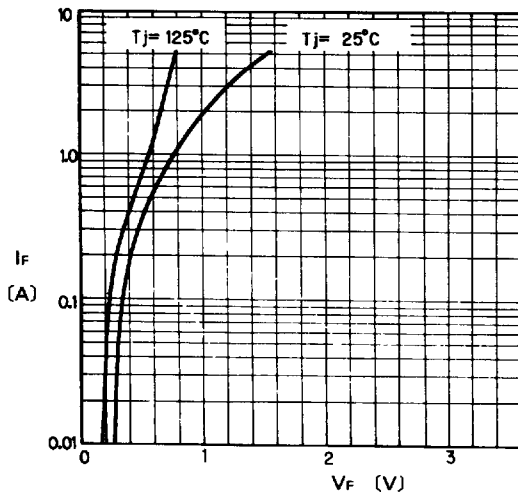
Maximum Ratings & Characteristics

- Absolute Maximum Ratings

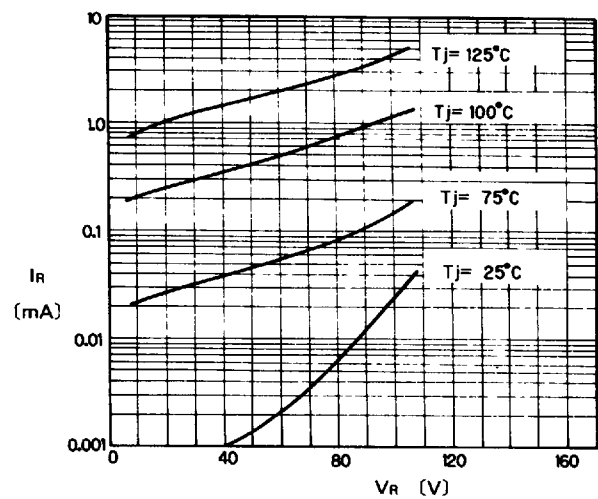
Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500ns$, duty 1/40	100	V
Average Forward Current	$I_{F(AV)}$	$T_J = 110^\circ C$, Resistive Load	1.0	A
Surge Current	I_{FSM}	Sine Wave, 10ms	30	A
Operating Junction Temperature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

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

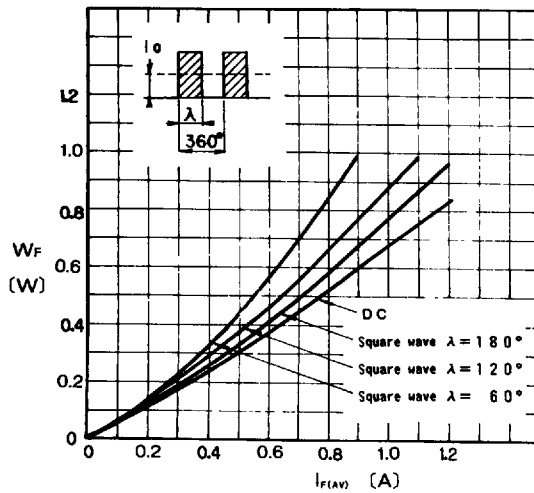
Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 1A$	0.82	V
Reverse Current	I_R	$V_R = V_{RRM}$	1.0	mA



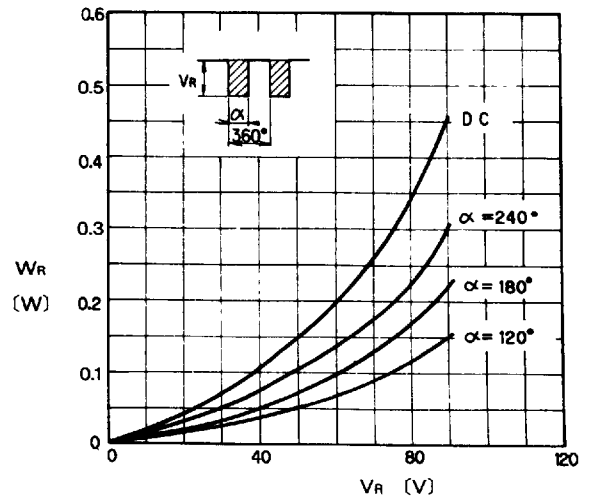
Forward Characteristics



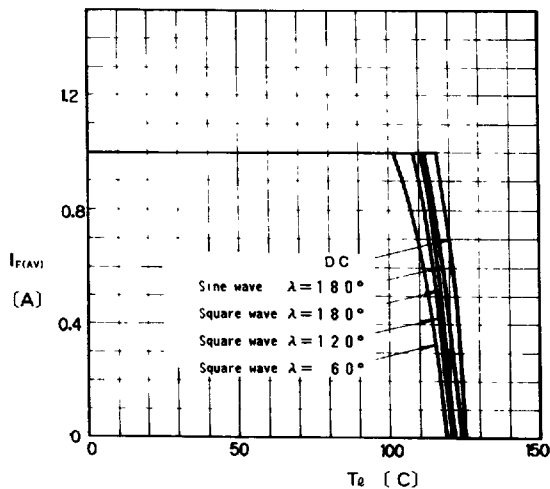
Reverse Characteristics



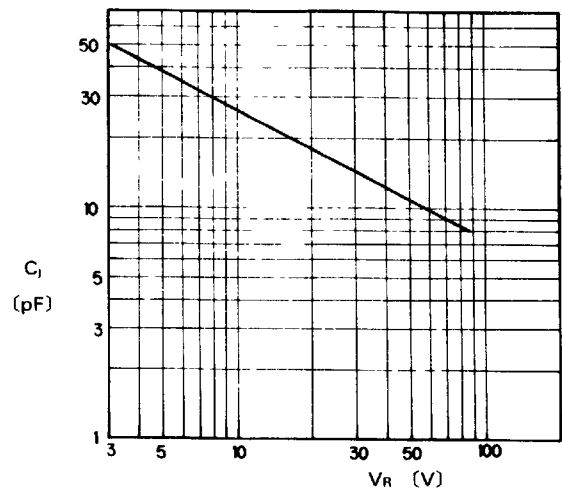
Forward Power Dissipation



Reverse Power Dissipation



Current Derating ($I_{F(AV)}-T_\theta$)



Junction Capacitance Characteristics

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

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