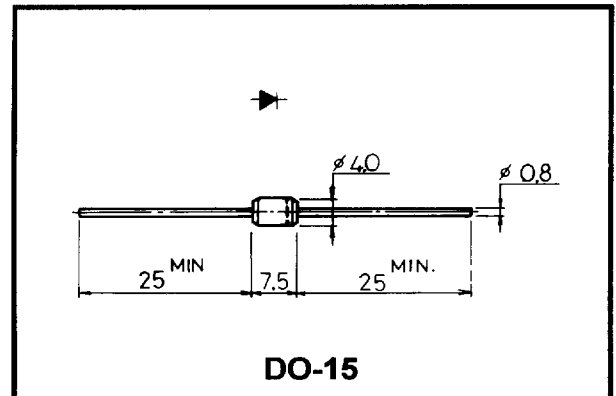


ERB84-009 (2A)

SCHOTTKY BARRIER DIODE

■ Outline Drawing



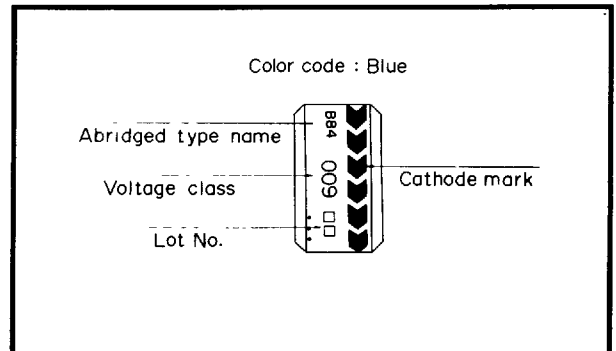
■ Features

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

■ Applications

- High speed power switching

■ Marking



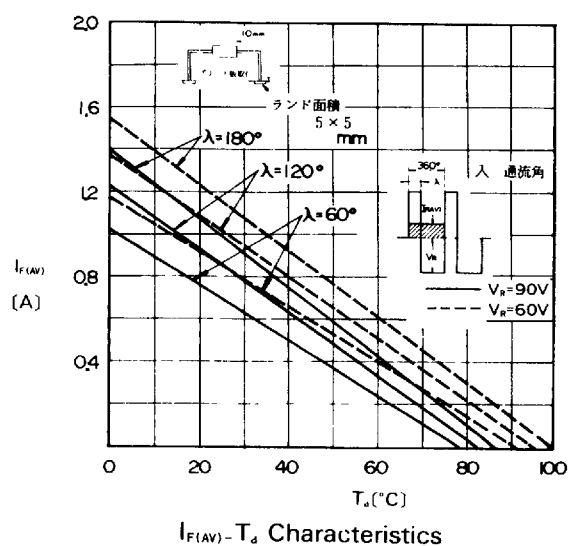
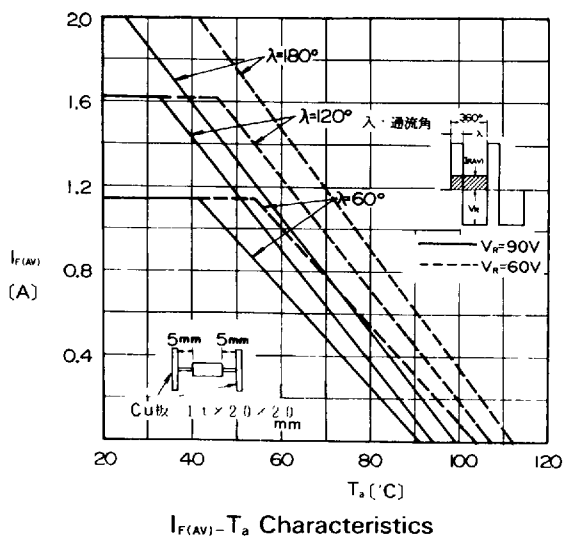
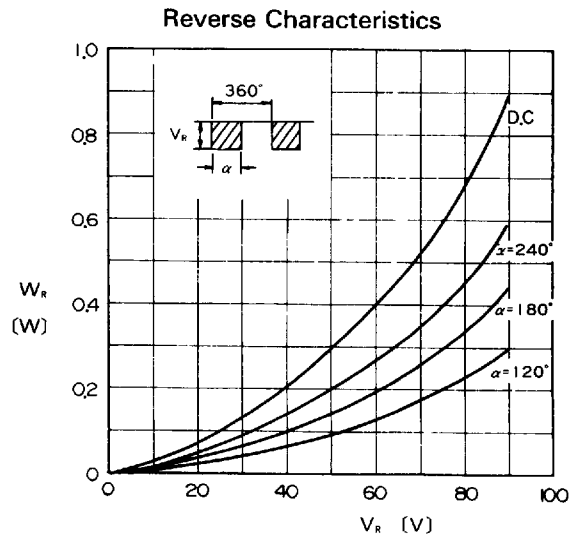
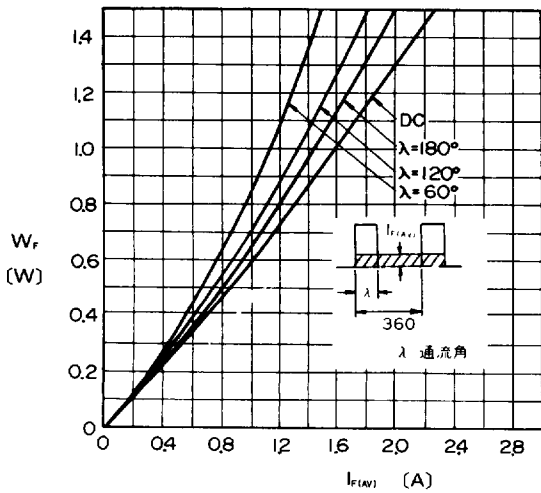
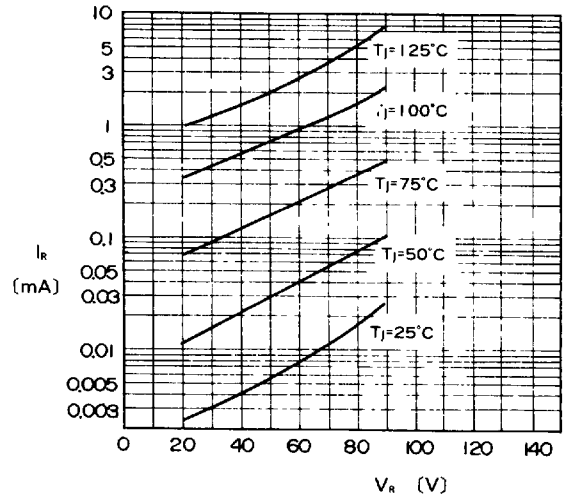
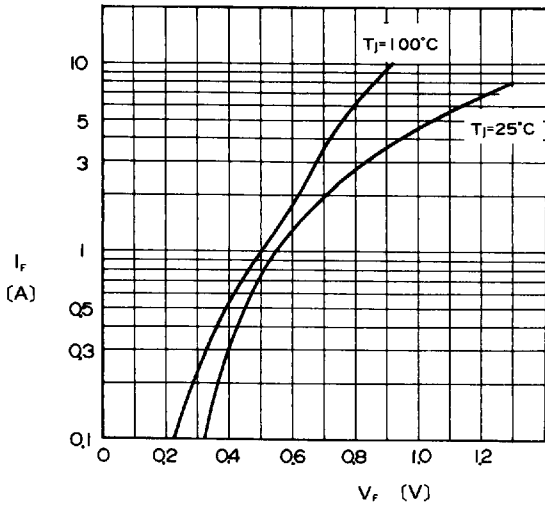
■ Maximum Ratings & Characteristics

- Absolute Maximum Ratings

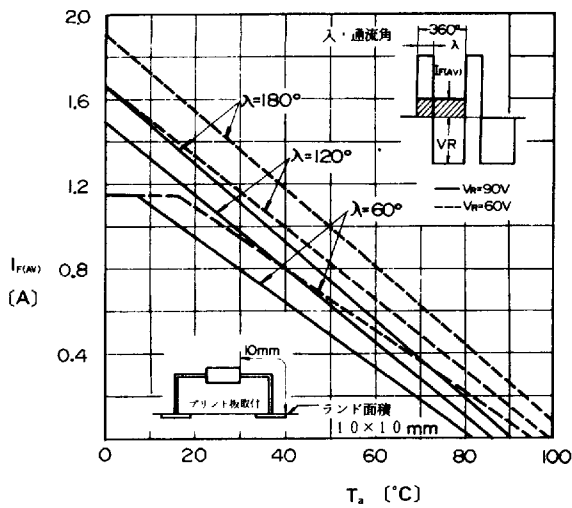
Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		90	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500ns$, duty 1/40	100	V
Average Forward Current	$I_{F(AV)}$	$T_a = 25^\circ C$, duty 1/2, Square wave	2.0	A
Surge Current	I_{FSM}	Sine Wave, 10ms	60	A
Operating Junction 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)

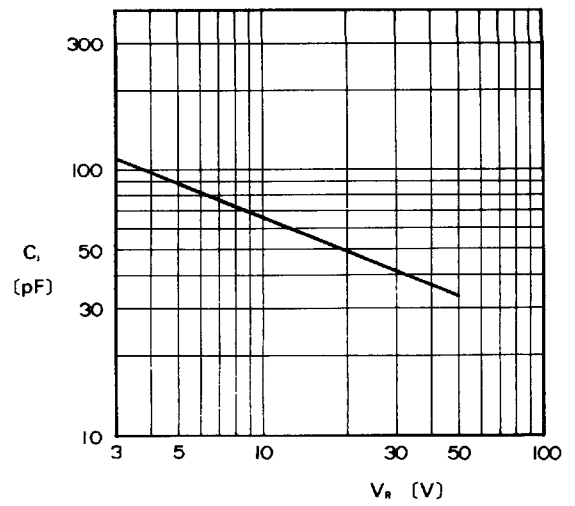
Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 2A$	0.9	V
Reverse Current	I_R	$V_R = V_{RRM}$	2.0	mA



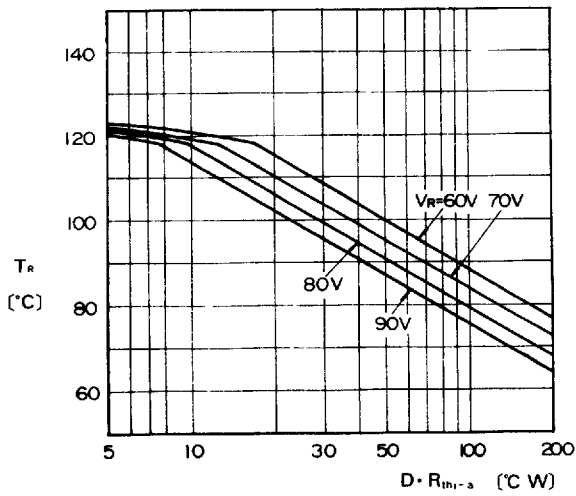
ERB84-009 (2A)



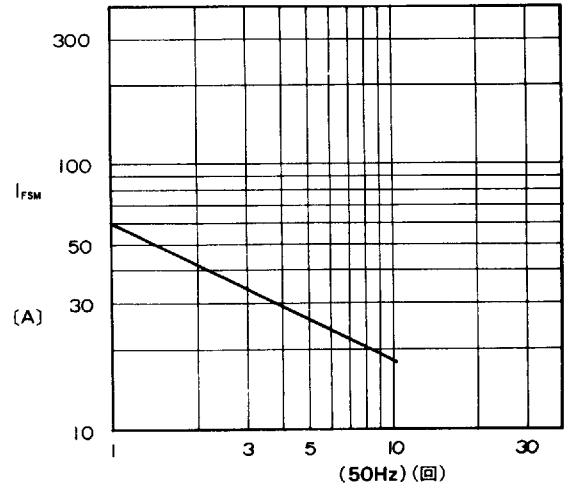
$I_{F(AV)}-T_A$ Characteristics



Junction Capacitance Characteristics



$T_R-D \cdot R_{\theta JA}$ Characteristics



Surge Capability