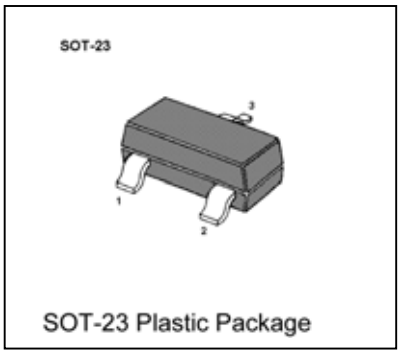
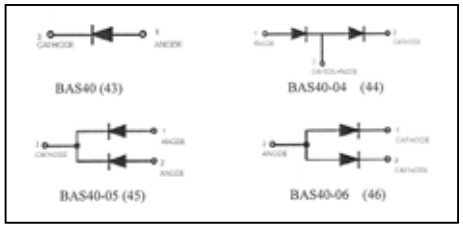
FUKUCOM COMPANY LTD.
福 靈 有 限 公 司
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.
TEL: 852-2790 0314 FAX: 852-2790 0206

BAS40 /04 /05 /06 LT1

Schottky Barrier Diode





Absolute Maximum Ratings at Ta=25℃ unless otherwise note

Symbol	Characteristic	Value	Units
V_R	Reverse Voltage	40	V
I_F	Forward Current	200	mA
I_F	Peck Forward Current	600	mA
P_F	Forward Power Dissipation @25℃ Derate above 25℃	225 1.8	mW mW/℃
T_j	Junction Temperature	125	℃
T_{stg}	Storage Temperature	-55 ~ 150	℃

Electrical Characteristics at Ta=25℃

Symbol	Characteristic	Condition	Min.	Typ.	Max.	Unit
$V_{(BR)R}$	Reverse Breakdown Voltage	I_R=10uA	40			V
I_R	Reverse Leakage Current	V_R=30V			0.5	mA
V_F	Forward Voltage	I_F=1.0mA I_F=40mA			0.38 1.00	V
C_T	Total Capacitance	VR=0V f=1.0MHz		4.0	5	pF
Trr	Reverse Recovery Time	I_F=I_R=10mA $I_{R(REC)}$=1.0mA			5.0	ns

Note: FR-5=1.0 x 0.75 x 0.062in

FM

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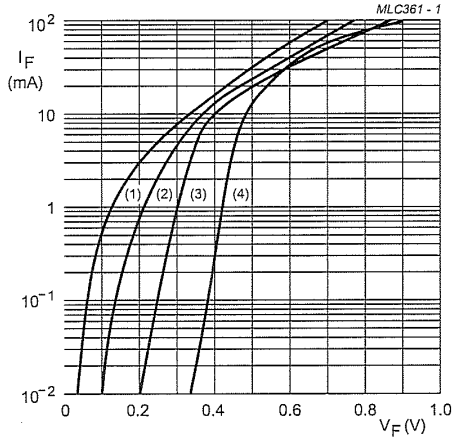
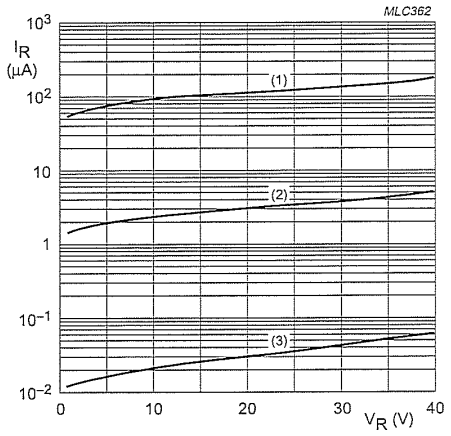


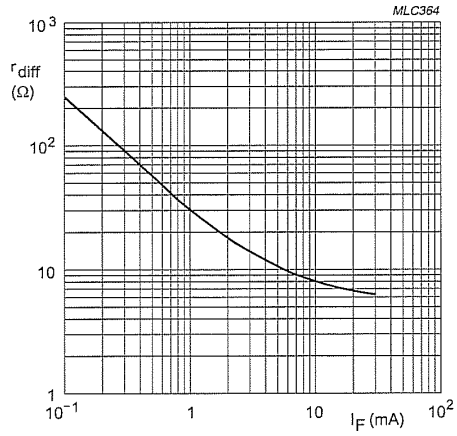
(1) T_{amb} = 150 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = –40 °C.

Fig.3 Forward current as a function of forward voltage; typical values.



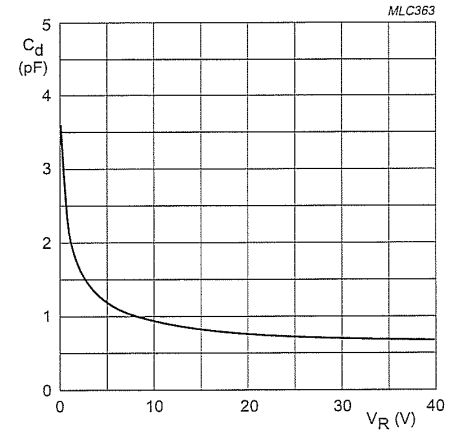
(1) T_{amb} = 150 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.

Fig.4 Reverse current as a function of reverse voltage; typical values.



f = 10 kHz.

Fig.5 Differential forward resistance as a function of forward current; typical values.



f = 1 MHz T_{amb} = 25 °C.

Fig.6 Diode capacitance as a function of reverse voltage; typical values.

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