

GDBAT54

SURFACE MOUNT, SCHOTTKY BARRIER DIODE
VOLTAGE 30V, CURRENT 200mA

Description

The GDBAT54 is designed for high speed switching applications circuit protection, and voltage clamping.

Package Dimensions

SOD-323

Marking :

Circuit:

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.85	1.05			
A1	0	0.10	L	0.20	0.40
A2	0.80	1.00	b	0.25	0.40
D	1.15	1.45	c	0.10	0.18
E	1.60	1.80			
HE	2.30	2.70	Q1	0.15 BSC.	

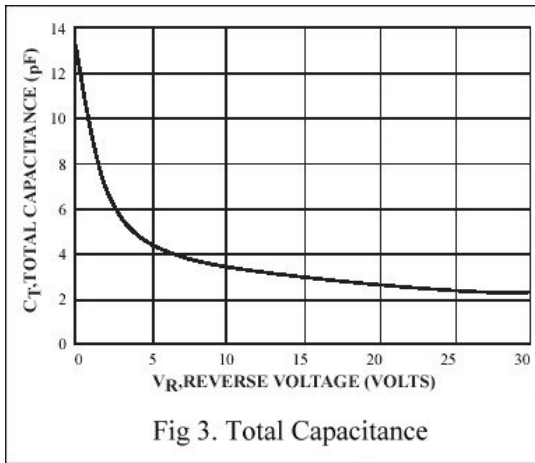
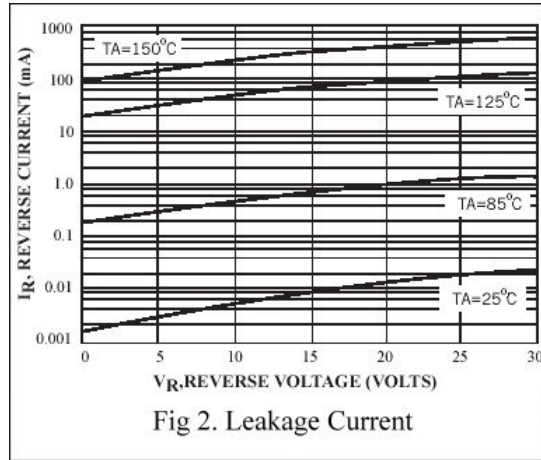
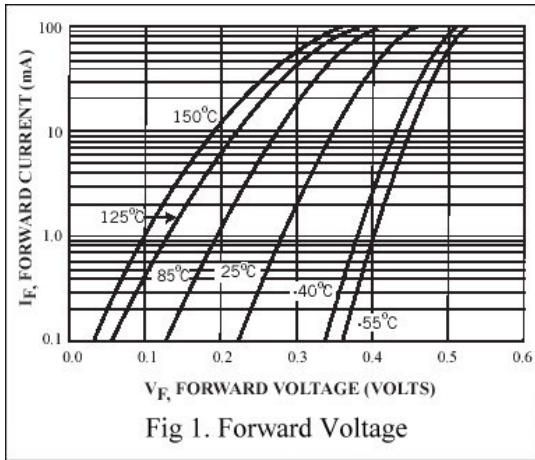
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	-55 ~ +125	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Peak Repetitive Reverse Voltage	V _R	30	V
Forward Continuous Current	I _F	200	mA
Peak Repetitive Forward Current	I _{FRM}	300	mA
Surge Forward Current(t ≤ 1.0s)	I _{FSM}	600	mA
Total Power Dissipation at Ta = 25°C	PD	225	mW

Characteristics at Ta = 25°C

characteristics	Symbol	Min	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	30	-	V	I _R =10μA
Forward Voltage	V _{F(1)}	-	240	mV	I _F =0.1mA
	V _{F(2)}	-	320	mV	I _F =1mA
	V _{F(3)}	-	400	mV	I _F =10mA
	V _{F(4)}	-	500	mV	I _F =30mA
	V _{F(5)}	-	1000	mV	I _F =100mA
Reverse Leakage Current	I _R	-	2.0	μA	V _R =25V
Total Capacitance	C _T	-	10	pF	V _R =1V, f=1MHz
Reverse Recover Time	T _{rr}	-	5	ns	I _F =I _R =10mA, I _{R(Rec)} =1mA

Characteristics Curve



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Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
- TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
- TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165