

# GMBD2004\A\C\S

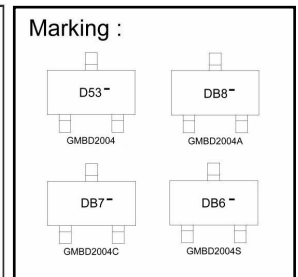
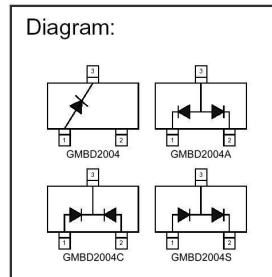
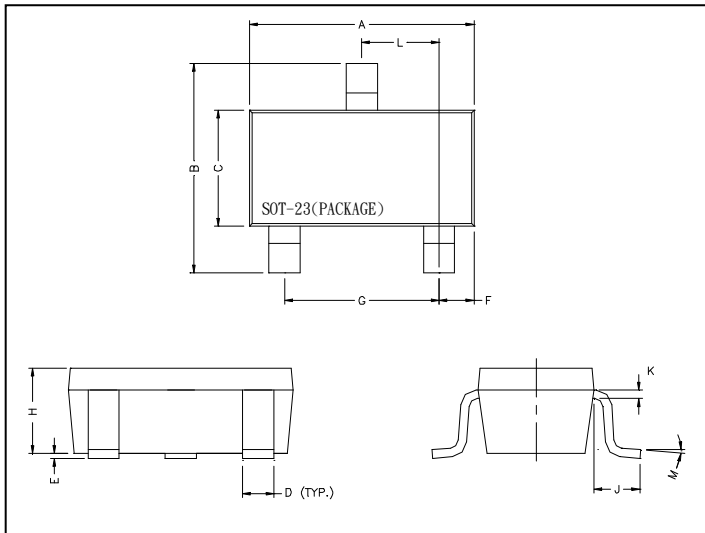
**SURFACE MOUNT, SWITCHING DIODE**

**VOLTAGE 300V, CURRENT 0.225A**

## Description

The GMBD2004\A\C\S are general purpose diodes fabricated in planar technology, and encapsulated in small plastic SMD SOT-23 package,

## Package Dimensions



Style: Pin1: Anode, 2: No Connection, 3: Cathode

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

## Absolute Maximum Ratings at Ta = 25°C unless otherwise specified

Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM	300	V
Continuous reverse voltage	VR(VRWM)	240	V
RMS Reverse Voltage	VR(RMS)	170	V
Forward Continuous Current	IFM	225	mA
Non-Repetitive Peak Forward surge Current @t = 1.0us @t = 1.0s	IFSM	4	A
		1	
Power Dissipation	PD	350	mW
Thermal Resistance Junction to Ambient Air	RθJA	357	°C/W
Storage Temperature Range	Tj, Tstg	-65 ~ +150	°C

## Characteristics at Ta = 25°C unless otherwise specified

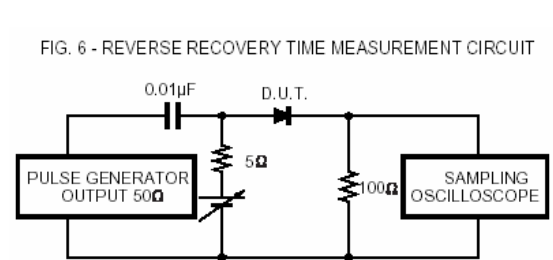
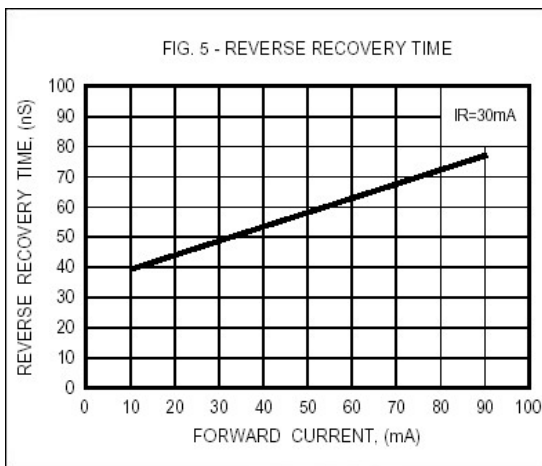
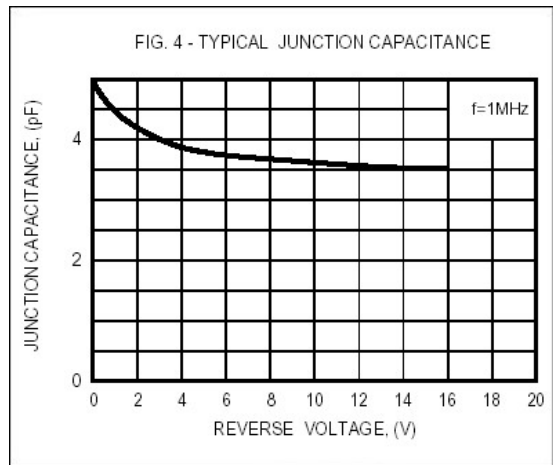
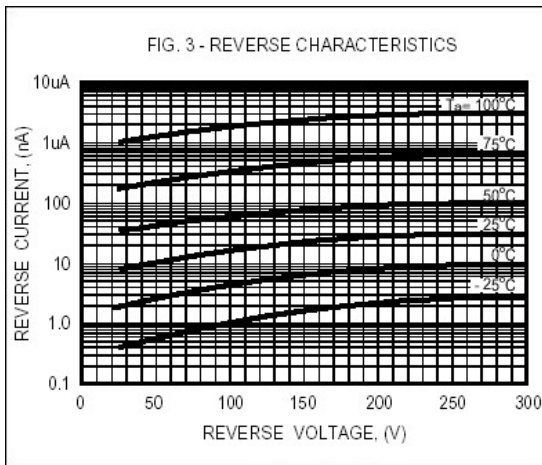
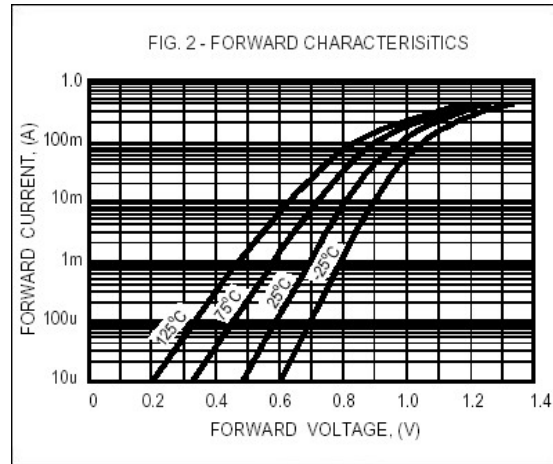
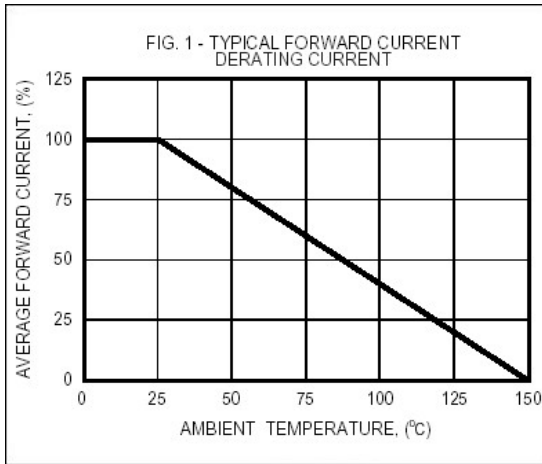
Characteristics	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	VF		0.85	V	IF = 20mA
		-	1	V	IF = 100mA
		-	1.25	V	IF = 225mA
Reverse Current	IR	-	100	nA	VR = 240V
				uA	VR = 240V, Tj = 150°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 0 volt.

2. Measured at applied forward current of 30mA, reverse current of 30mA, RL=100Ω and recovery to IRR=-3mA.

3. ESD sensitive product handling required.

## Characteristics Curve



**Important Notice:**

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

**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