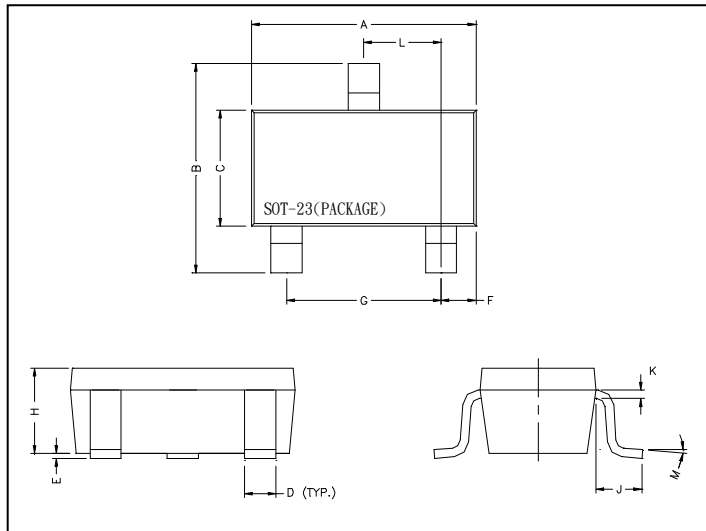
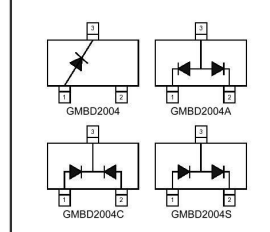
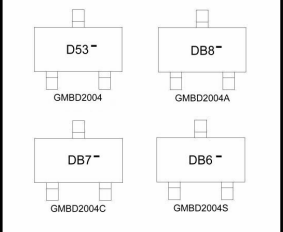


GMBD2004\A\C\S**SURFACE MOUNT, SWITCHING DIODE****VOLTAGE 300V, CURRENT 0.225A****Description**

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

Package Dimensions**Diagram:****Marking :**

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 $T_a = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	300	V
Continuous reverse voltage	$V_R(V_{RWM})$	240	V
RMS Reverse Voltage	$V_R(RMS)$	170	V
Forward Continuous Current	I_{FM}	225	mA
Non-Repetitive Peak Forward surge Current @ $t = 1.0\mu\text{s}$ @ $t = 1.0\text{s}$	I_{FSM}	4	A
		1	
Power Dissipation	PD	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Storage Temperature Range	T_J, T_{stg}	-65 ~ +150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$ unless otherwise specified

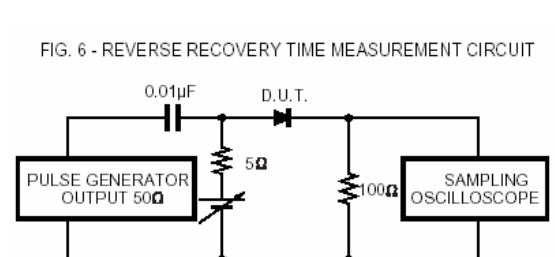
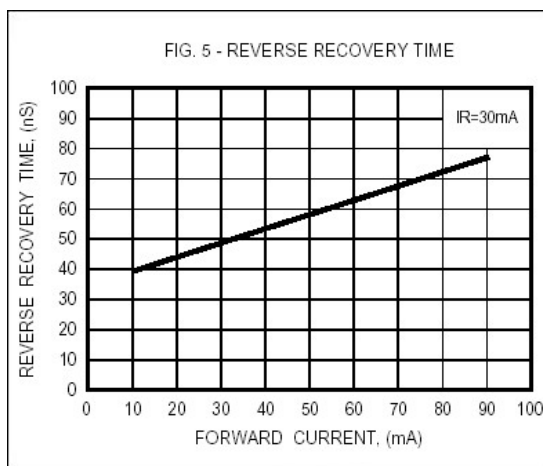
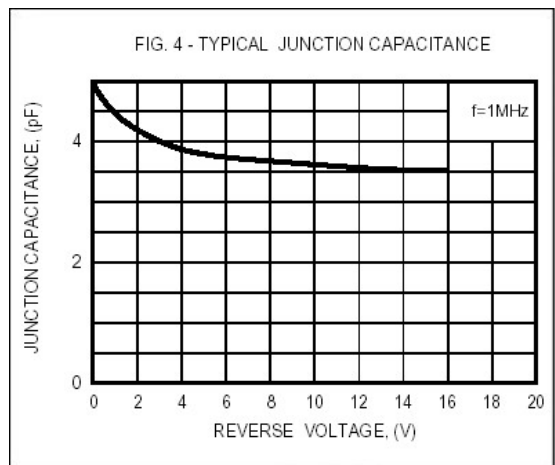
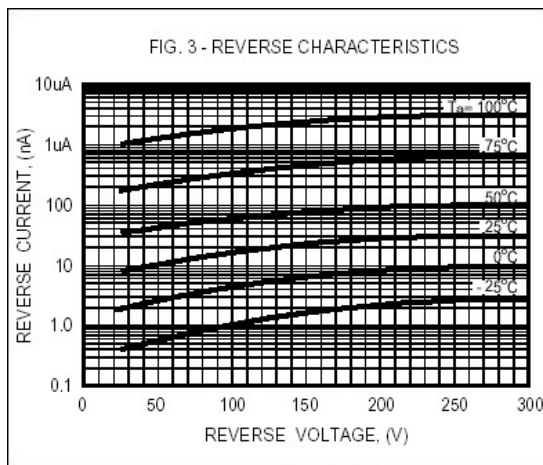
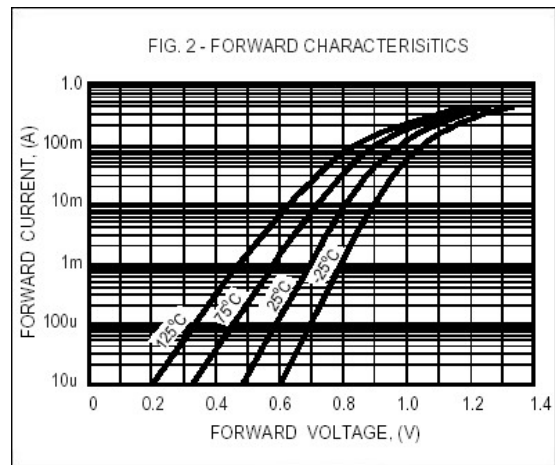
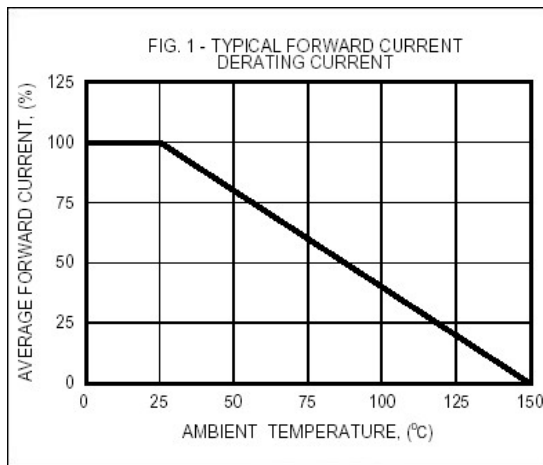
Characteristics	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	VF		0.85	V	$I_F = 20\text{mA}$
		-	1	V	$I_F = 100\text{mA}$
		-	1.25	V	$I_F = 225\text{mA}$
Reverse Current	IR	-	100	nA	$V_R = 240\text{V}$
				μA	$V_R = 240\text{V}, T_J = 150^\circ\text{C}$

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, $R_L = 100\Omega$ and recovery to $I_{RR} = -3\text{mA}$.

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