

GS706SD SURFACE MOUNT, SCHOTTKY BARRIER DIODE VOLTAGE 45V, CURRENT 0.03A

Description

The GS706SD is designed for general purpose detection and high speed switching.

Package Dimensions

SOT-323

Marking:

Circuit:

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

Absolute Maximum Ratings at Ta = 25R

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _J	+125	
Storage Temperature	T _{stg}	-40 ~ +125	
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	45	V
Maximum RMS Voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Peak Forward Surge Current at 8.3mSec single half sine-wave	I _{FSM}	0.2	A
Typical Junction Capacitance between Terminal (Note 1)	C _J	2.0	pF
Maximum Average Forward Rectified Current	I _o	0.03	A
Total Power Dissipation	PD	225	mW

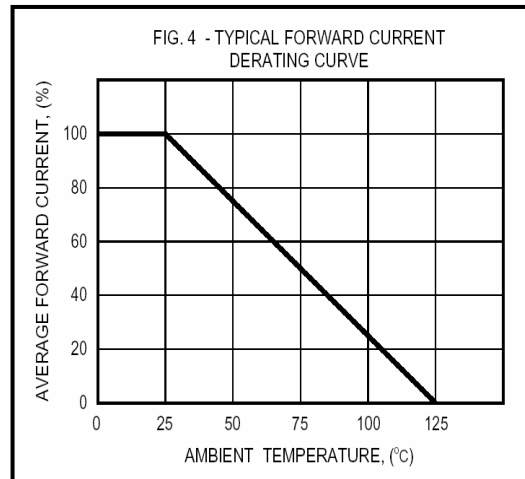
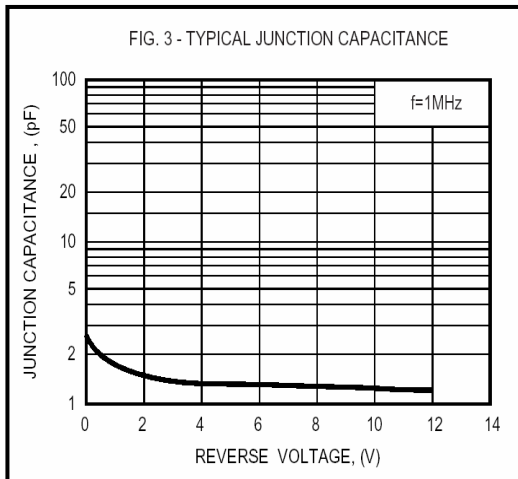
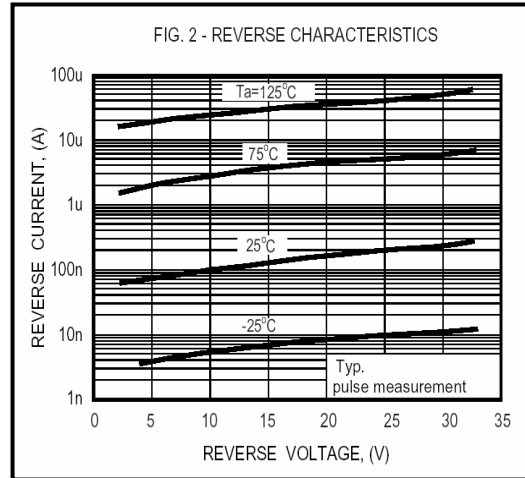
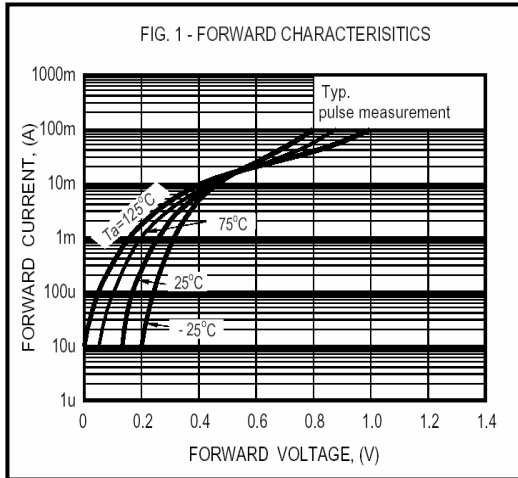
Characteristics at Ta = 25

Characteristics	Symbol	Typ.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V _F	0.37	V	IF = 1mA
Maximum Average Reverse Current	IR	1.0	uA	VR = 10V

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

2. 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