

GDMA77 SURFACE MOUNT, BAND SWITCHING DIODE VOLTAGE 35V, CURRENT 0.1A

Description

The GDMA77 is designed for band switching application.

Features

- Low forward dynamic resistance r_f
- Less voltage dependence of diode capacity C_D

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 $T_a = 25^\circ\text{C}$

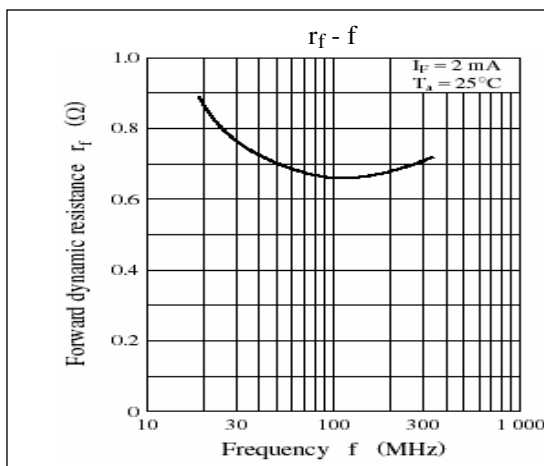
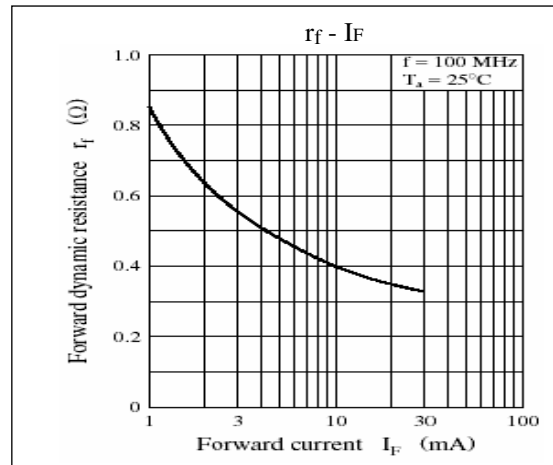
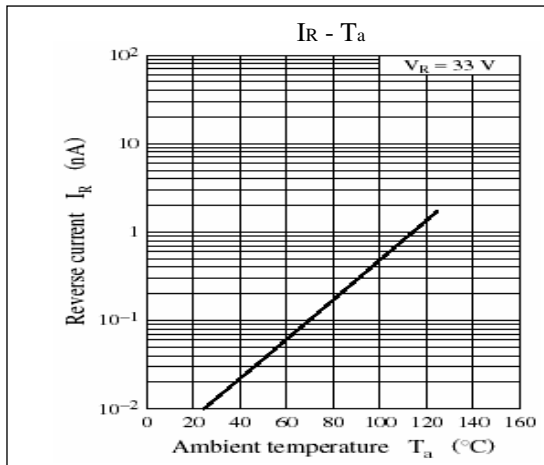
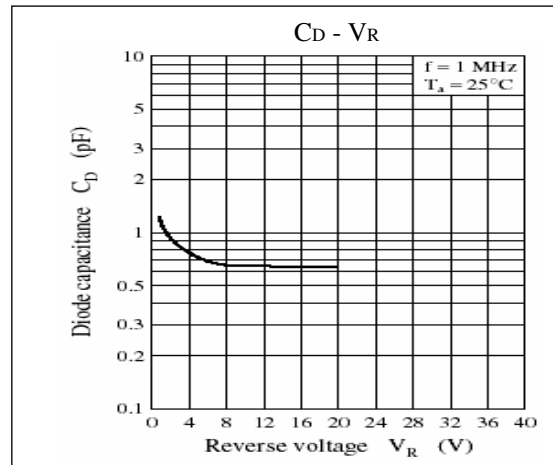
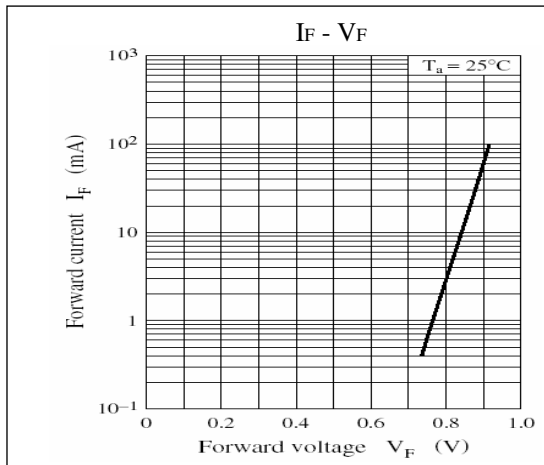
Parameter	Symbol	Ratings	Unit
Reverse Voltage(DC)	V_R	35	V
Forward Current(DC)	I_F	100	mA
Junction Temperature	T_j	+125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 ~ +150	$^\circ\text{C}$
Total Power Dissipation	P_D	225	mW

Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown	V_R	35	-	-	V	$I_R=10\mu\text{A}$
Reverse Current(DC)	I_R	-	0.01	100	nA	$V_R=33\text{V}$
Reverse Voltage(DC)	V_F	-	0.92	1	V	$I_F=100\text{mA}$
Diode Capacitance	C_D	-	0.9	1.2	pF	$V_R=6, f=1\text{MHz}$
Forward dynamic resistance	r_f	-	0.65	0.85	Ω	$I_F=2\text{mA}, f=100\text{MHz}$

Note 1: Rated input/output frequency: 100MHz

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