

GTM CORPORATION

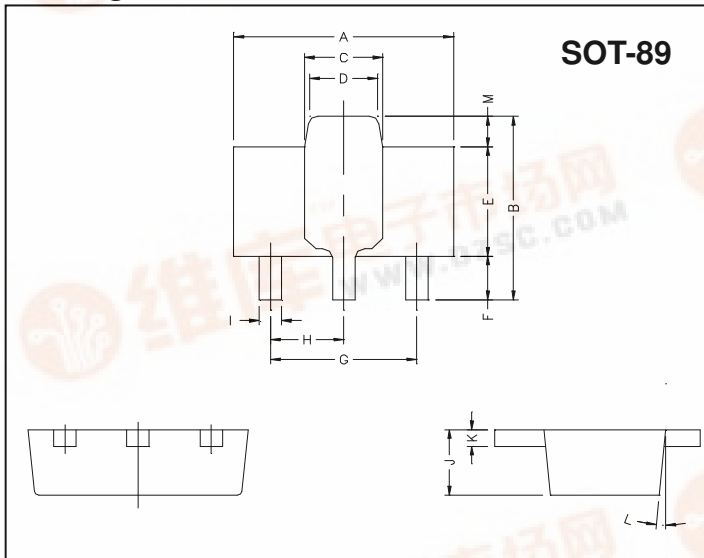
ISSUED DATE :2005/03/25
REVISED DATE :2005/11/28B

GM3669 NPN EPITAXIAL PLANAR TRANSISTOR

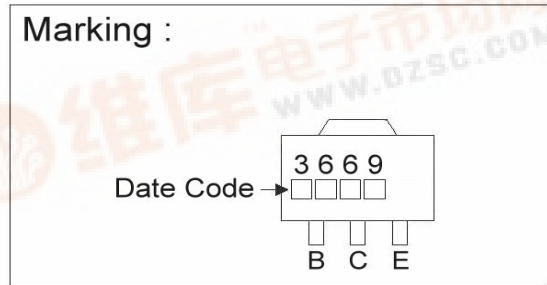
Description

The GM3669 is designed for using in power amplifier applications, power switching application.

Package Dimensions



Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5° TYP.	
			M	0.70 REF.	

Absolute Maximum Ratings at TA = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C
Collector to Base Voltage	Vcbo	80	V
Collector to Emitter Voltage	Vceo	80	V
Emitter to Base Voltage	Vebo	5	V
Collect Current(DC)	Ic	2	A
Total Power Dissipation	Pd	1	W

Electrical Characteristics (TA = 25°C)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcbo	80	-	-	V	Ic=100uA, IE=0
BVceo	80	-	-	V	Ic=100uA, IB=0
BVebo	5	-	-	V	IE=100uA, Ic=0
Icbo	-	-	1	uA	Vcb=80V, IE=0
IEBO	-	-	1	uA	VBE=5V, Ic=0
*VCE(sat)	-	0.15	0.5	V	Ic=1A, IB=50mA
*VBE(sat)	-	0.9	1.2	V	Ic=1A, IB=50mA
*hFE1	70	-	240		VCE=2V, Ic=0.5A
*hFE2	40	-	-		VCE=2V, Ic=1.5A
fT	-	100	-	MHz	VCE=2V, Ic=0.5A
Cob	-	30	-	pF	Vcb=10V, f=1MHz
Ton	-	0.2	-	uS	Vcc=30V, RL=30Ω, Ic=1A, IB1=-IB2=50mA, Duty Cycle ≤ 1%
Tstg	-	1	-		
Tf	-	0.2	-		

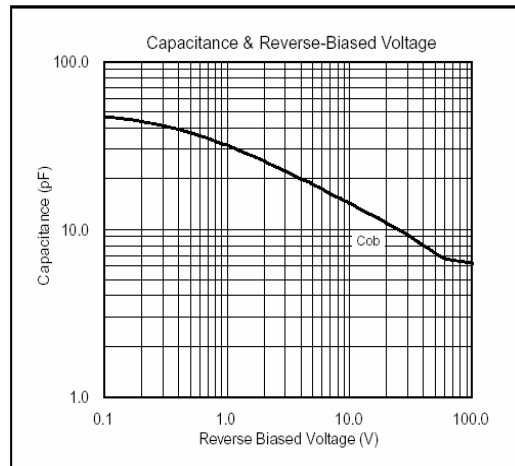
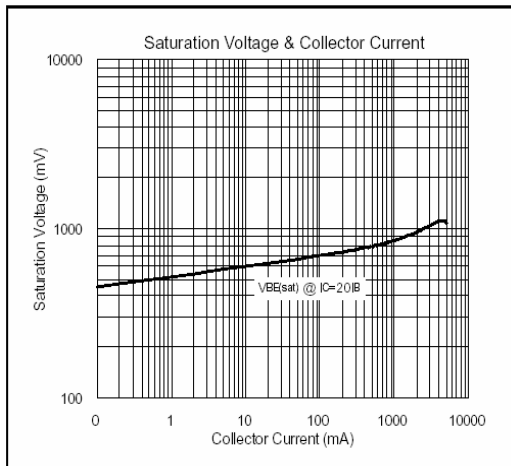
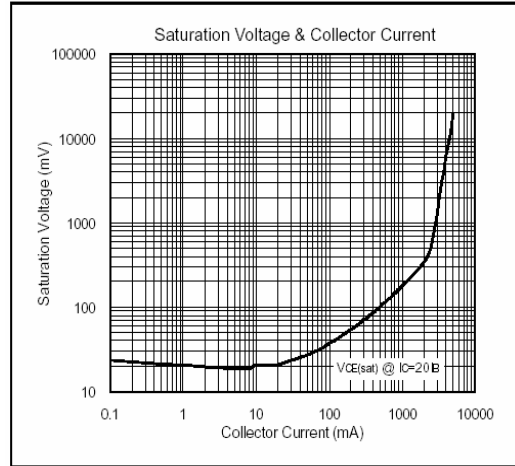
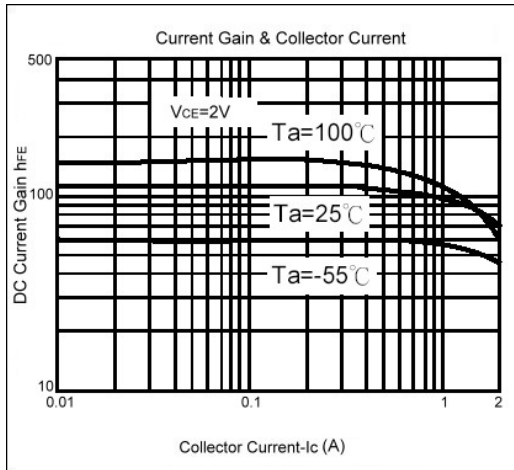
* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Classification Of hFE1

Rank	O	Y
Range	70 ~ 140	120 ~ 240



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