

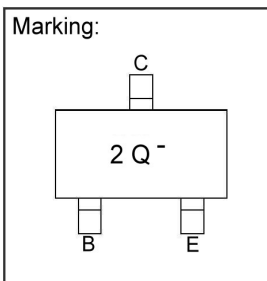
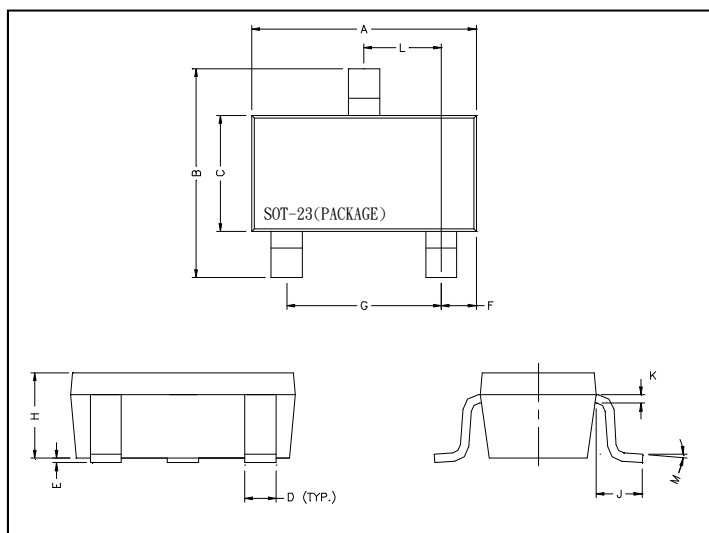
GMBT5087

PNP EPITAXIAL PLANAR TRANSISTOR

Description

The GMBT5087 is designed for low noise, high gain and general purpose amplifier applications.

Package Dimensions



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

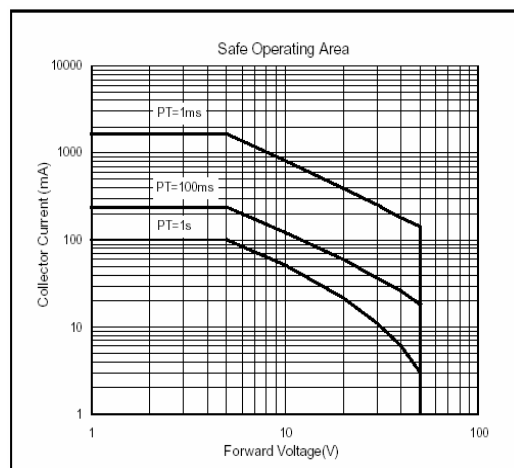
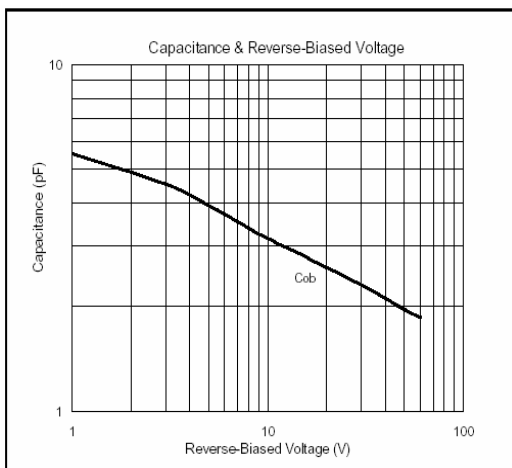
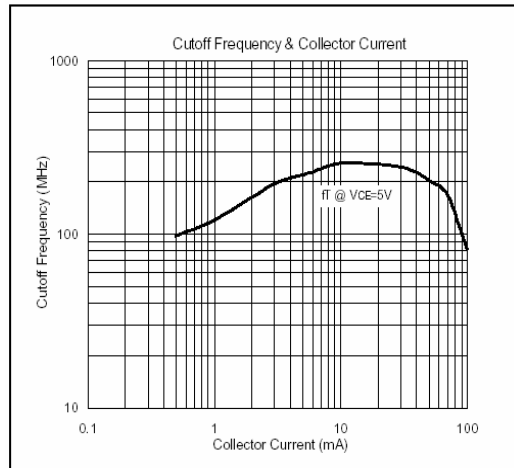
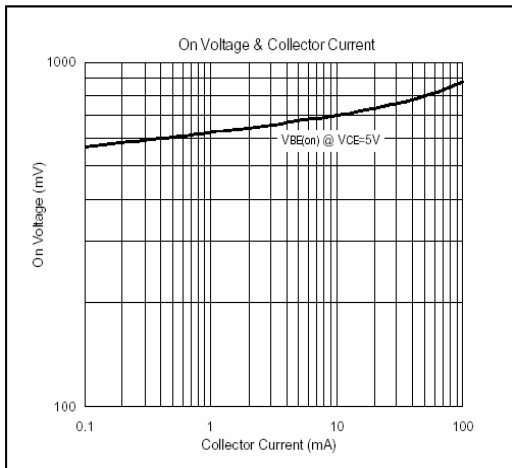
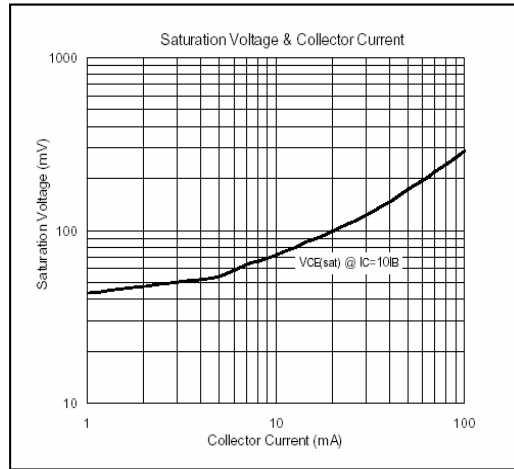
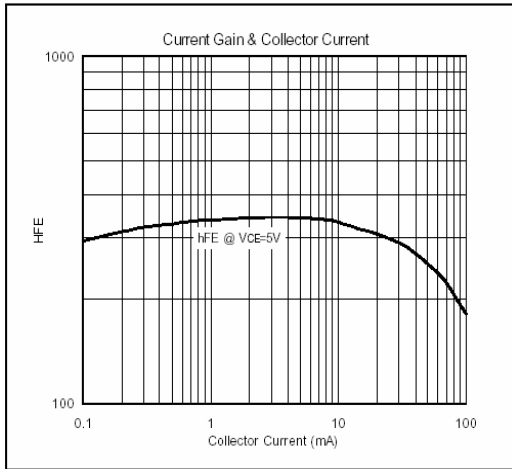
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	-50	V
Collector to Emitter Voltage	VCEO	-50	V
Emitter to Base Voltage	VEBO	-3	V
Collector Current	IC	-50	mA
Total Power Dissipation	PD	225	mW

Electrical Characteristics (Ta = 25°C, unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-50	-	-	V	IC=-100uA, IE=0
BVCEO	-50	-	-	V	IC=-1mA, IB=0
BVEBO	-3	-	-	V	IE=-10uA, IC=0
ICBO1	-	-	-10	nA	VCB=-10V, IE=0
ICBO2	-	-	-50	nA	VCB=-35V, IE=0
*VCE(sat)	-	-	-300	mV	IC=-10mA, IB=-1mA
*VBE(sat)	-	-	-850	mV	IC=-10mA, IB=-1mA
*hFE1	250	-	800		VCE=-5V, IC=0.1mA
*hFE2	250	-	-		VCE=-5V, IC=1mA
*hFE3	250	-	-		VCE=-5V, IC=10mA
ft	40	-	-	MHz	VCE=-5V, IC=0.5mA, f=100MHz
Cob	-	-	4.0	pF	VCB=-5V, f=100kHz

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

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