

GMBT2411 NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

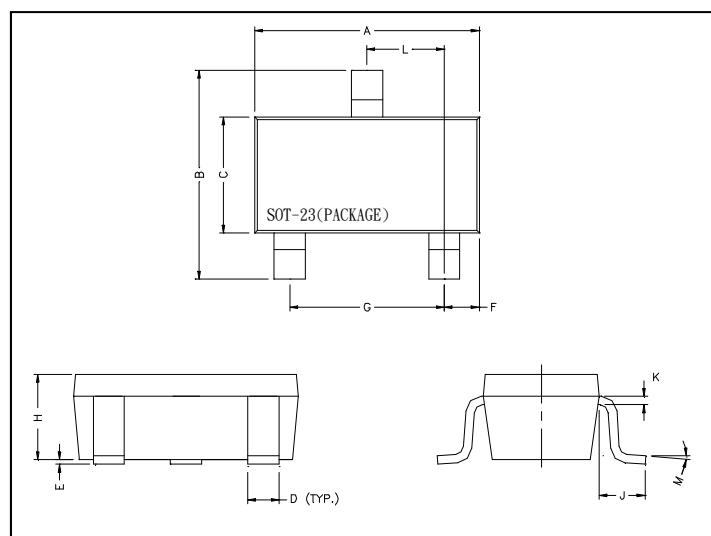
Description

The GMBT2411 is designed for medium power amplifier applications.

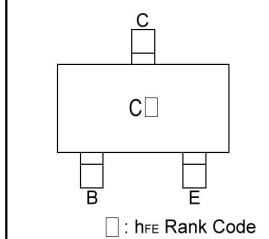
Features

- $I_{CMax.}=500mA$
- Low $V_{CE(sat)}$. Optimal for low voltage operation.
- Complementary to GMBT1036

Package Dimensions



Marking :



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 $T_a = 25^\circ C$

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	+150	$^\circ C$
Storage Temperature	T_{stg}	-55~+150	$^\circ C$
Collector to Base Voltage	V_{CB0}	40	V
Collector to Emitter Voltage	V_{CE0}	32	V
Emitter to Base Voltage	V_{EB0}	5	V
Collector Current	I_C	500	mA
Total Power Dissipation	P_D	225	mW

Electrical Characteristics ($T_a = 25^\circ C$, unless otherwise stated)

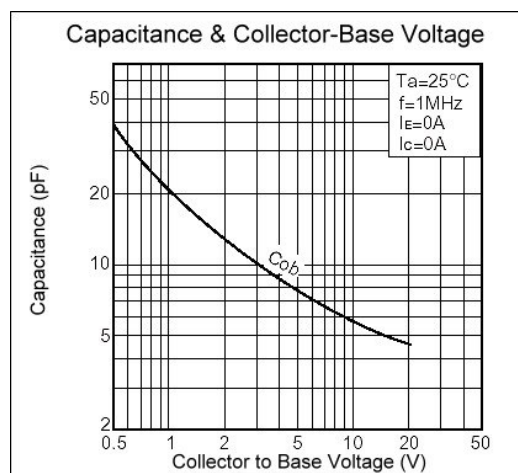
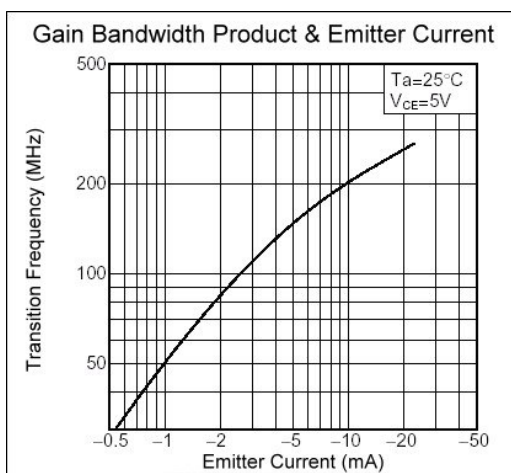
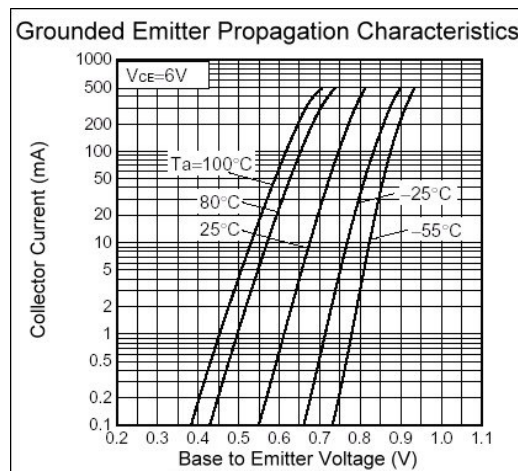
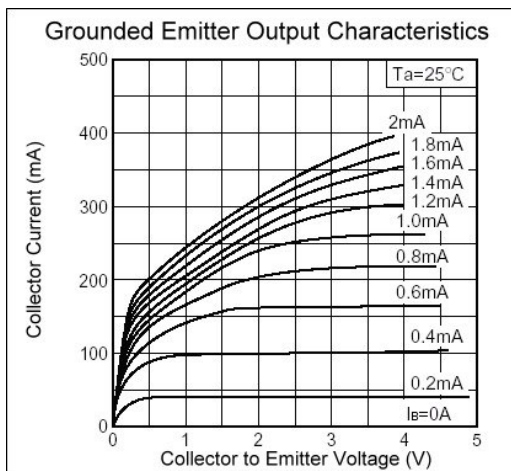
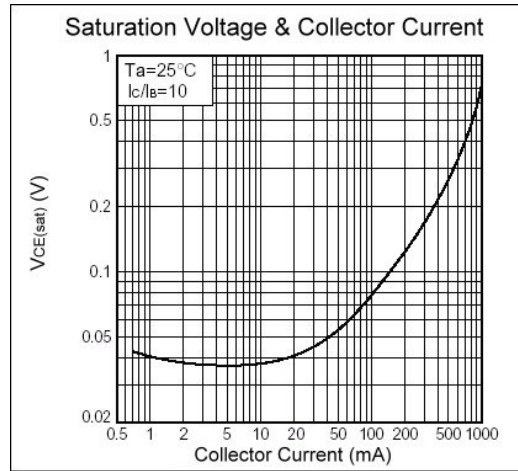
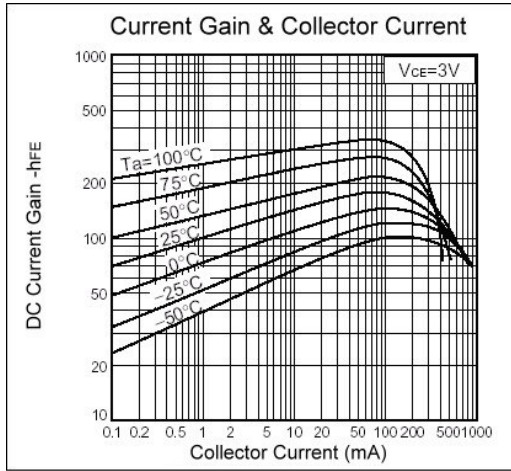
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CB0}	40	-	-	V	$I_C=100\mu A, I_E=0$
V_{CE0}	32	-	-	V	$I_C=1mA, I_B=0$
V_{EB0}	5	-	-	V	$I_E=100\mu A, I_C=0$
I_{CBO}	-	-	1	μA	$V_{CB}=20V, I_E=0$
I_{EBO}	-	-	1	μA	$V_{EB}=4V, I_C=0$
* $V_{CE(sat)}$	-	-	400	mV	$I_C=500mA, I_B=50mA$
*hFE	82	-	390		$V_{CE}=3V, I_C=100mA$
fT	-	250	-	MHz	$V_{CE}=5V, I_E=-20mA, f=100MHz$
Cob	-	6	-	pF	$V_{CB}=10V, I_E=0, f=1MHz$

*Measured under pulse condition. Pulse width=300 μs , Duty Cycle $\leq 2\%$

Classification Of hFE

Rank	CP	CQ	CR
Range	82 - 180	120 - 270	180 - 390

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