

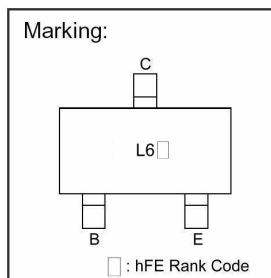
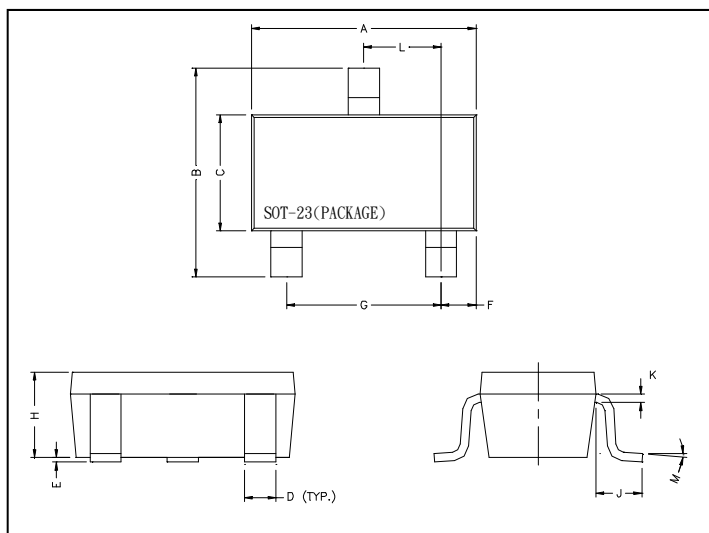
## GMBT1623

### NPN EPITAXIAL PLANAR TRANSISTOR

### Description

The GMBT1623 is designed for use driver stage of AF amplifier and general purpose application.

### 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	60	V
Collector to Emitter Voltage	VCEO	50	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	IC	150	mA
Total Power Dissipation	PD	250	mW

### Characteristics at Ta = 25°C

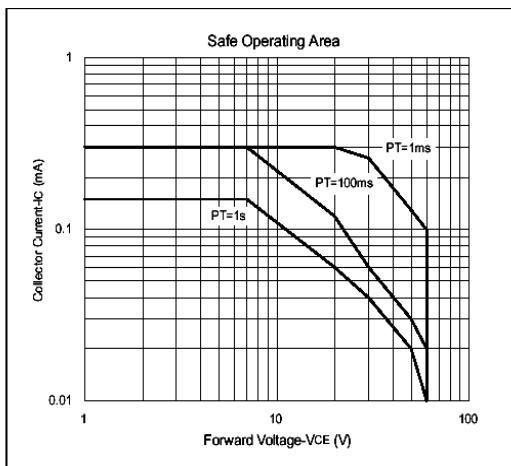
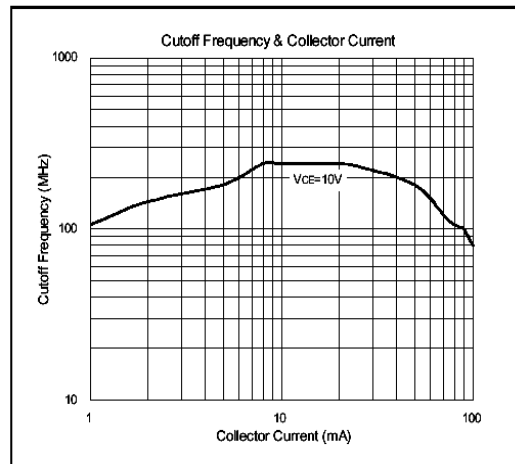
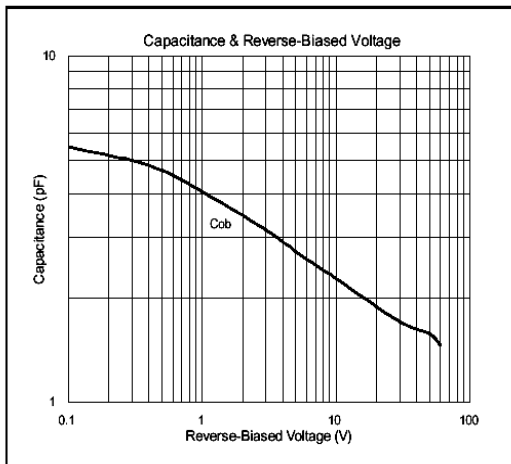
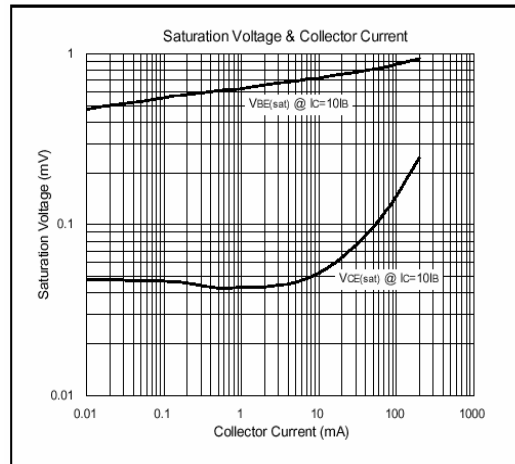
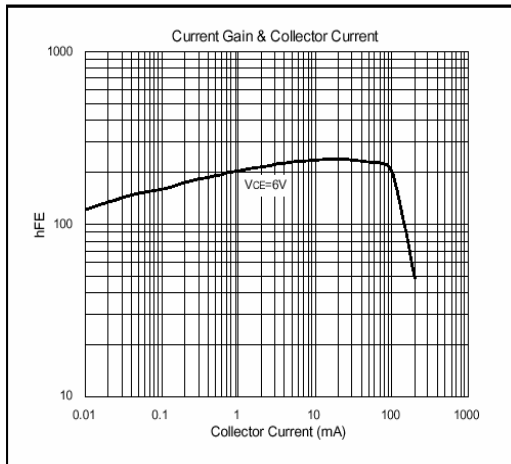
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	60	-	-	V	IC=100uA
BVCEO	50	-	-	V	IC=1mA
BVEBO	5	-	-	V	IE=10uA
ICBO	-	-	100	nA	VCB=60V
IEBO	-	-	100	nA	VEB=5V
*VCE(sat)	-	-	250	mV	IC=100mA, IB=10mA
*VBE(sat)	-	-	1.0	V	IC=100mA, IB=10mA
*hFE1	90	-	600		VCE=6V, IC=1mA
*hFE2	25	-	-		VCE=6V, IC=150mA
*hFE3	80	-	-		VCE=1V, IC=10mA
fT	80	-	-	MHz	VCE=10V, IC=1mA, f=100MHz
Cob	-	-	3.5	pF	VCB=10V, f=1MHz

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

### Classification of hFE1

Rank	L6P	L6Y	L6G	L6B
Range	90 - 180	135 - 270	200 - 400	300 - 600

## Characteristics Curve



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