

GTM CORPORATION

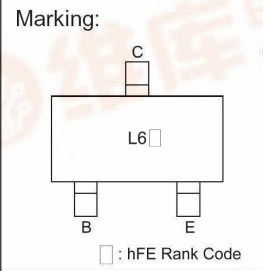
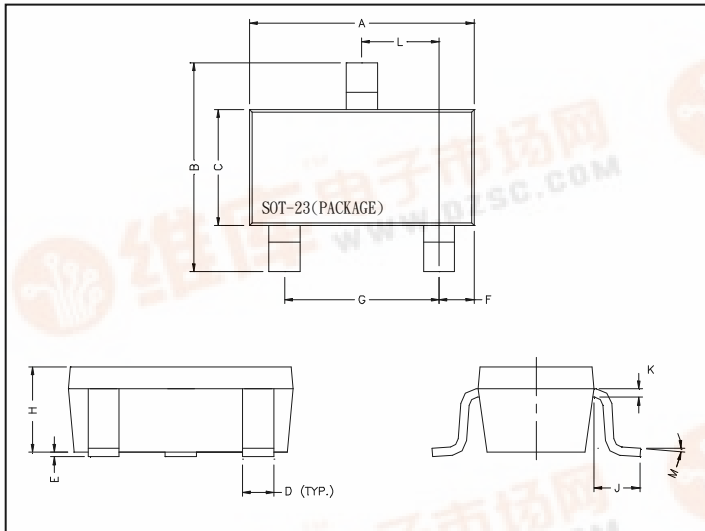
ISSUED DATE :2003/01/09
REVISED DATE :2004/12/16B

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

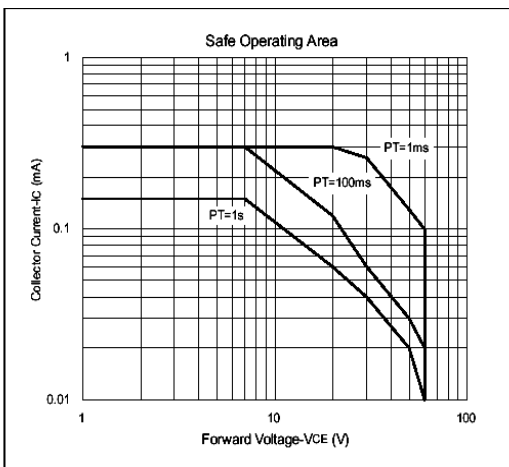
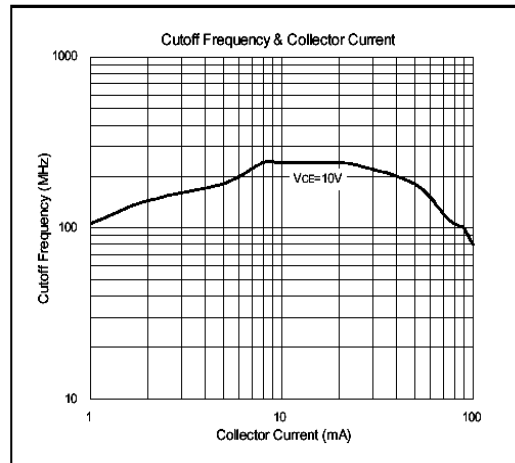
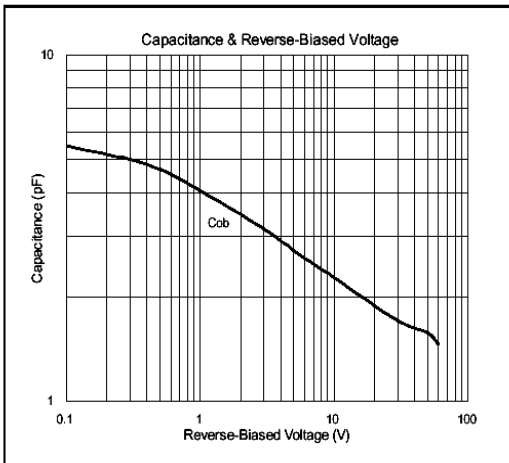
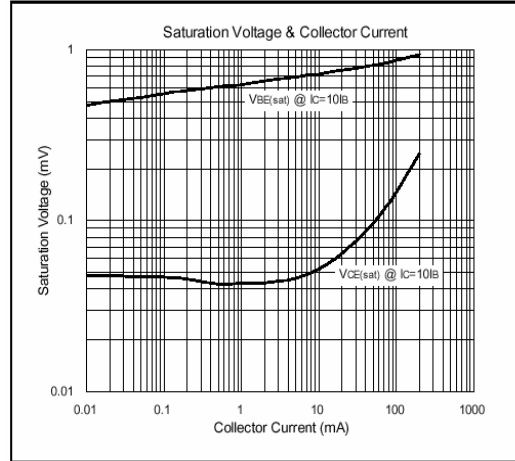
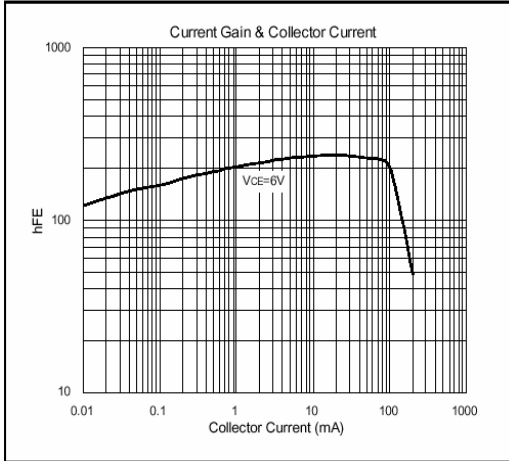
* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Classification of hFE1

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



Characteristics Curve



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