

GTM CORPORATION

ISSUED DATE :2005/11/22
REVISED DATE :

GMBT2714 NPN EPITAXIAL PLANAR TRANSISTOR

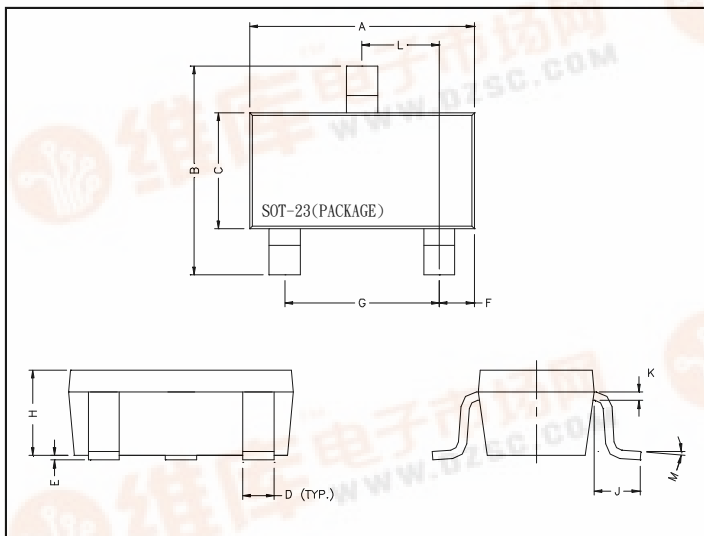
Description

The GMBT2714 is designed for use in FM, RF, MIX and IF amplifier application.

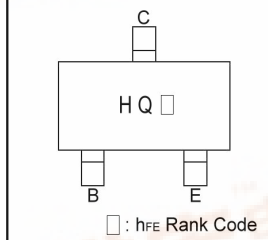
Features

- High frequency
- Very low capacitance

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 Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	30	V
Emitter to Base Voltage	VEBO	4	V
Collector Current	IC	20	mA
Total Power Dissipation	PD	225	mW

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

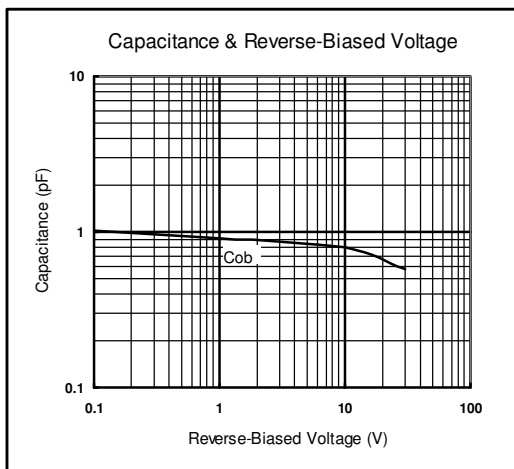
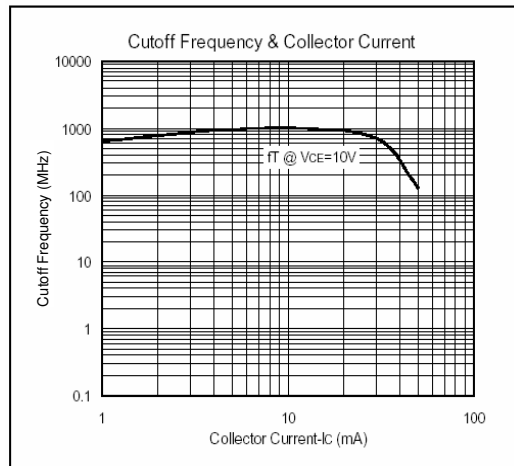
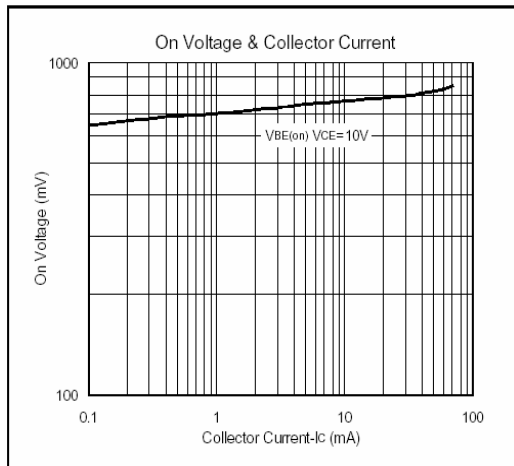
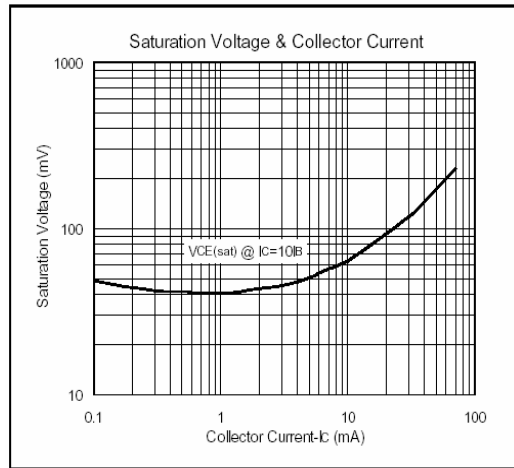
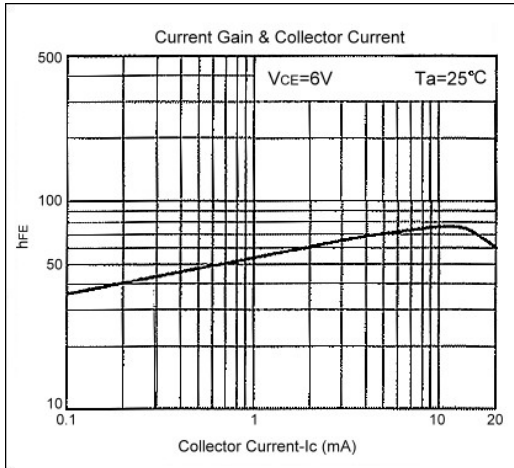
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	40	-	-	V	I _C =100uA, I _E =0
BV _{CE0}	30	-	-	V	I _C =1mA, I _B =0
BV _{EB0}	4	-	-	V	I _E =10uA, I _C =0
I _{CB0}	-	-	500	nA	V _{CB} =18V, I _E =0
I _{EB0}	-	-	500	nA	V _{EB} =4V, I _C =0
V _{CE(sat)}	-	-	500	mV	I _C =4mA, I _B =0.4mA
V _{BE(on)}	-	-	950	mV	V _{CE} =10V, I _C =4mA
h _{FE}	40	-	200		V _{CE} =6V, I _C =1mA
f _T	650	-	-	MHz	V _{CE} =10V, I _C =4mA, f=100MHz
C _{ob}	-	0.8	-	pF	V _{CB} =10V, f=1MHz

Classification Of hFE

Rank Range	R	O	Y
	40 ~ 80	70 ~ 140	100 ~ 200



Characteristics Curve



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