

GTM CORPORATION

ISSUED DATE :2005/03/16
REVISED DATE :2005/11/22B

GMBTH10 NPN EPITAXIAL PLANAR TRANSISTOR

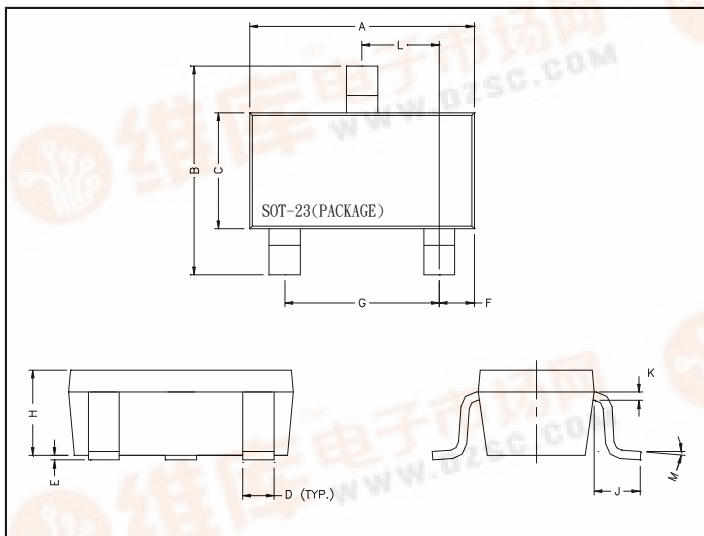
Description

The GMBTH10 is designed for use in VHF & UHF oscillators and VHF mixer in tuner of a TV receiver.

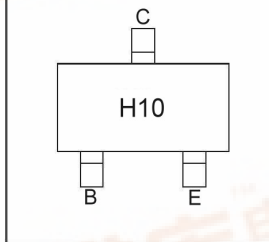
Features

- 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°

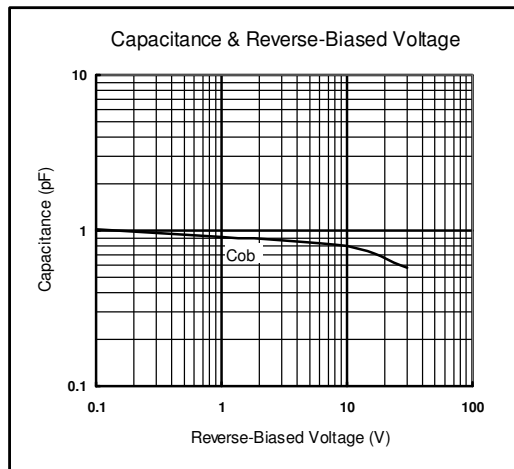
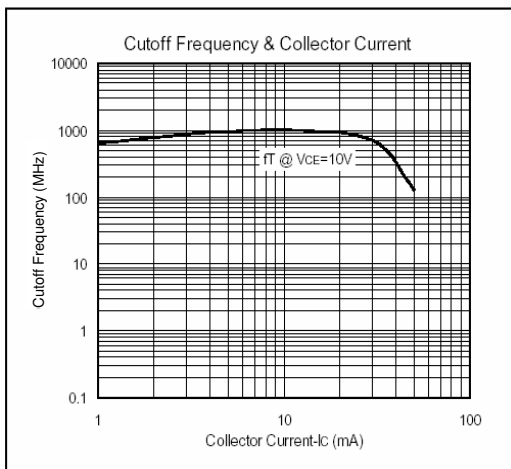
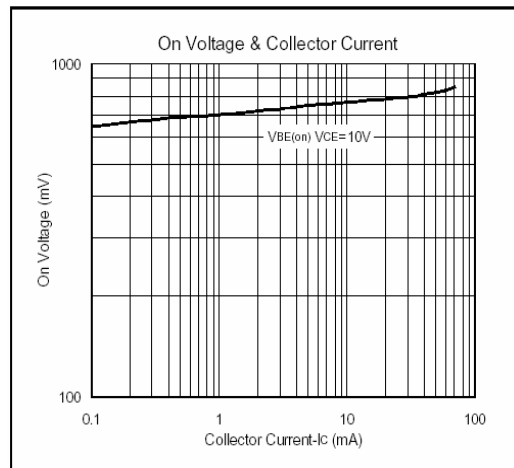
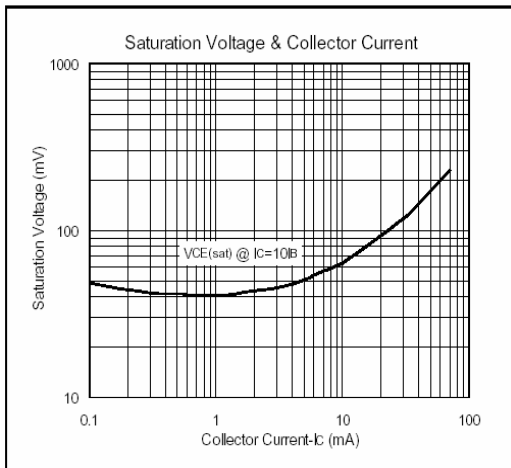
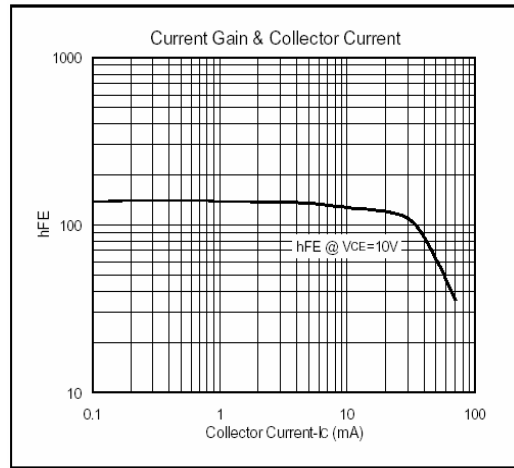
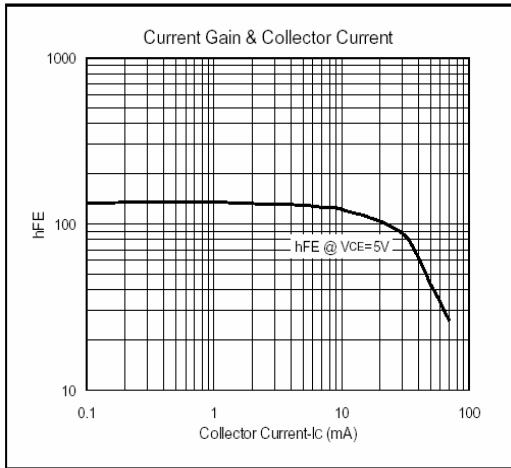
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	30	V
Collector to Emitter Voltage	VCEO	25	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	30	-	-	V	IC=100uA, IE=0
BVCEO	25	-	-	V	IC=1mA, IB=0
BVEBO	3	-	-	V	IE=10uA, IC=0
ICBO	-	-	100	nA	VCB=25V, IE=0
IEBO	-	-	100	nA	VEB=2V, IC=0
VCE(sat)	-	-	500	mV	IC=4mA, IB=0.4mA
VBE(on)	-	-	950	mV	VCE=10V, IC=4mA
hFE	60	-	-		VCE=10V, IC=4mA
fT	650	-	-	MHz	VCE=10V, IC=4mA, f=100MHz
Cob	-	0.8	-	pF	VCB=10V, f=1MHz

Characteristics Curve



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