

GMBT8550L PNP EPITAXIAL TRANSISTOR

Description

The GMBT8550L(large current) is designed for general purpose amplifier applications.

Package Dimensions

SOT - 23

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	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	VCBO	-40	V
Collector to Emitter Voltage	VCEO	-25	V
Emitter to Base Voltage	VEBO	-6	V
Collector Current	I _C	1.5	A
Total Power Dissipation	PD	250	mW

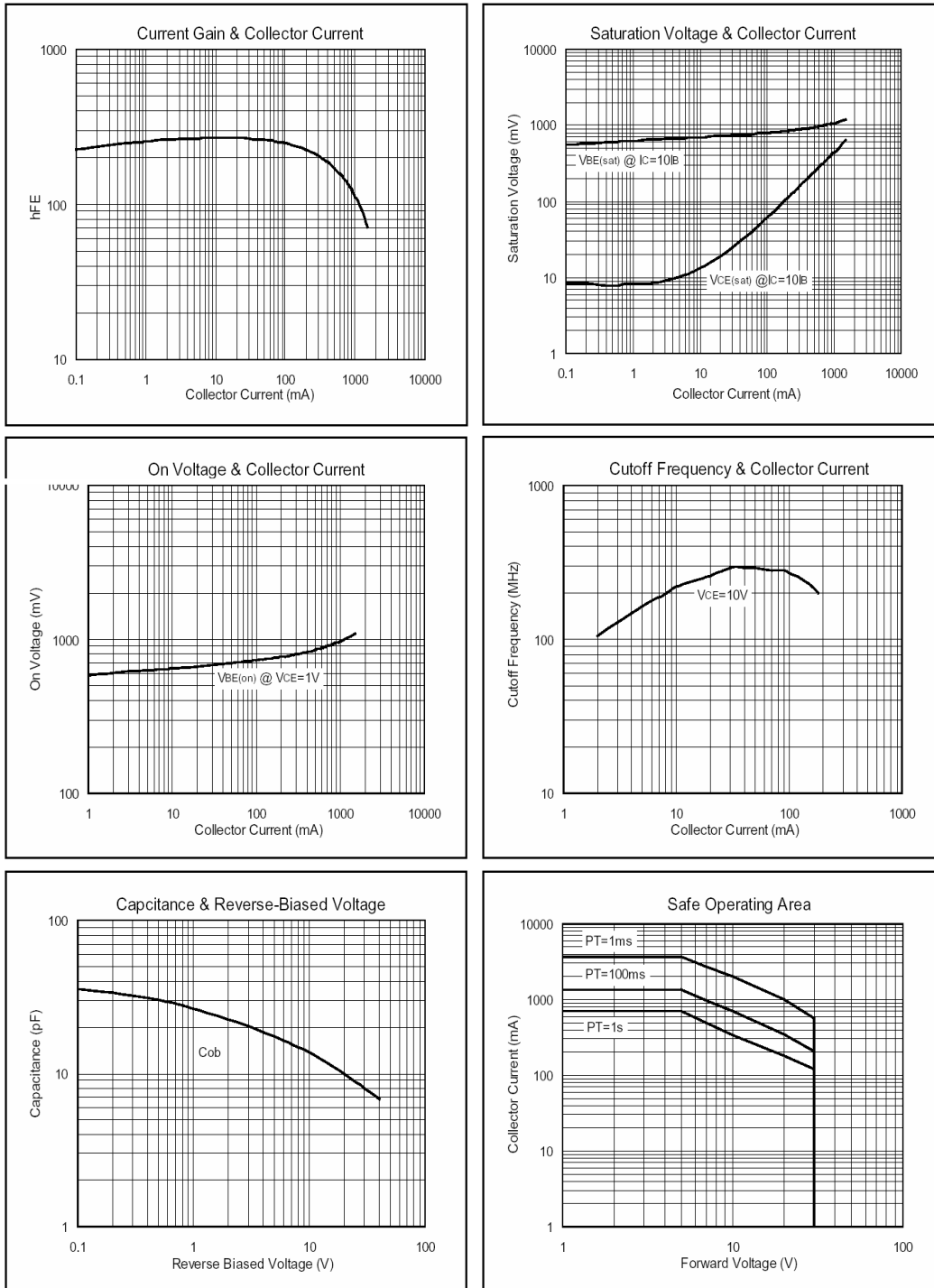
Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	I _C =-100uA
BVCEO	-25	-	-	V	I _C =-2mA
BVEBO	-6	-	-	V	I _E =-100uA
ICBO	-	-	-100	nA	V _{CB} =-35V, I _E =0
IEBO	-	-	-100	nA	V _{EB} =-6V, I _C =0
VCE(sat)	-	-	-0.5	V	I _C =-800mA, I _B =-80mA
VBE(sat)	-	-	-1.2	V	I _C =-800mA, I _B =-80mA
VBE(on)	-	-	-1	V	V _{CE} =-1V, I _C =-10mA
hFE	45	-	-		V _{CE} =-1V, I _C =-5mA
hFE	120	-	500		V _{CE} =-1V, I _C =-100mA
hFE	40	-	-		V _{CE} =-1V, I _C =-800mA
f _T	100	-	-	MHz	V _{CE} =-10V, I _C =-20mA, f=100MHz
C _{ob}	-	-	10	pF	V _{CB} =-10V, f=1MHz

Classification Of hFE

Rank	BLC	BLD	BLE
hFE	120 - 200	160 - 300	250 - 500

Characteristics Curve



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