

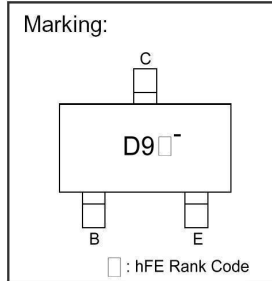
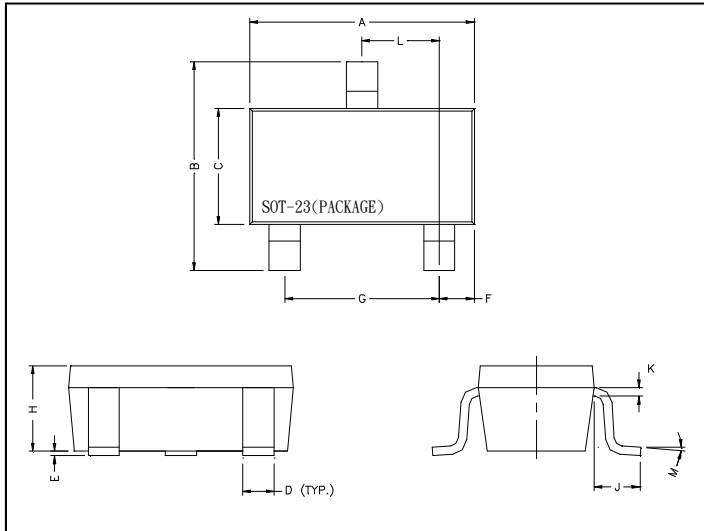
GMBT8050

NPN EPITAXIAL TRANSISTOR

Description

The GMBT8050 is designed for general purpose amplifier applications.

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	T _j	+150	°C
Storage Temperature	T _{stg}	-55~+150	°C
Collector to Base Voltage	V _{CB0}	25	V
Collector to Emitter Voltage	V _{CEO}	20	V
Emitter to Base Voltage	V _{EB0}	5	V
Collector Current	I _C	700	mA
Total Power Dissipation	PD	225	mW

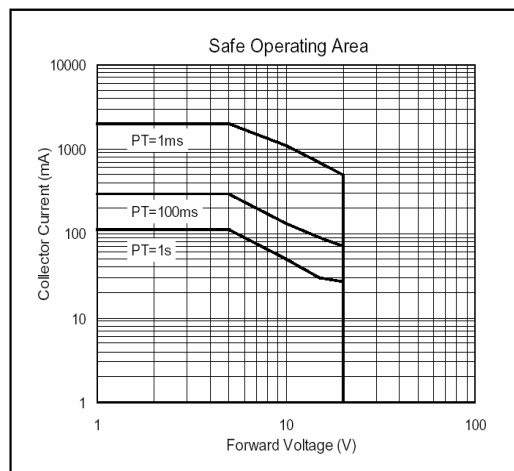
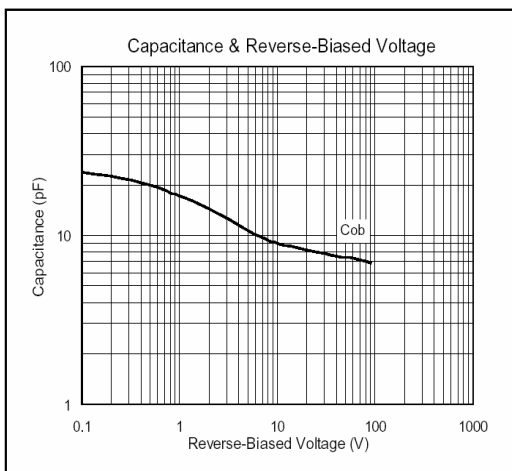
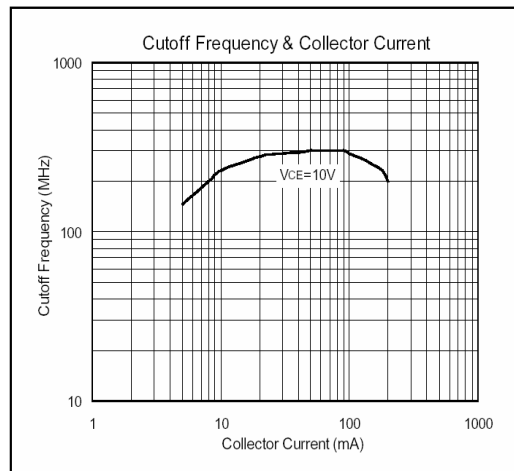
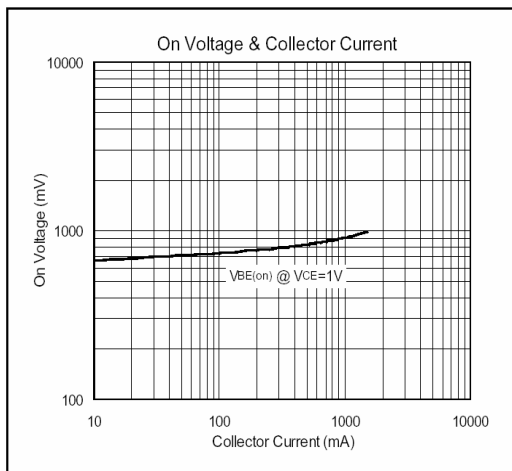
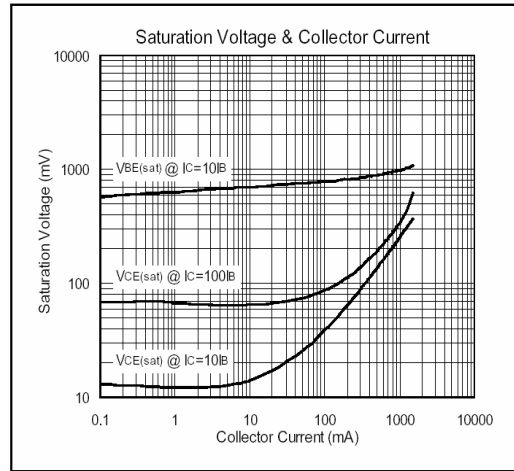
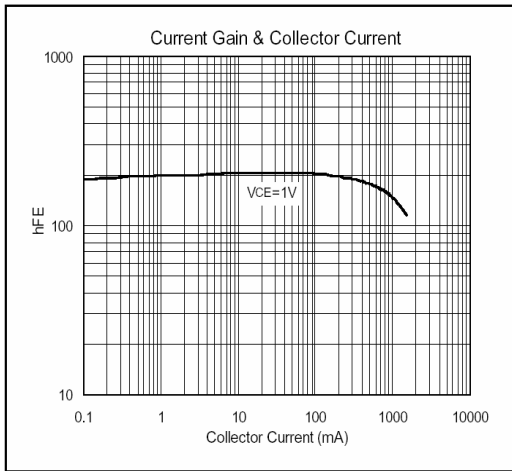
Electrical Characteristics (Ta = 25°C, unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CB0}	25	-	-	V	I _C =10uA, I _E =0
V _{CEO}	20	-	-	V	I _C =1mA, I _B =0
V _{EB0}	5	-	-	V	I _E =10uA, I _C =0
I _{CB0}	-	-	1	uA	V _{CB} =30V, I _E =0
I _{EB0}	-	-	100	nA	V _{EB} =5V, I _C =0
V _{CE(sat)}	-	-	500	mV	I _C =500mA, I _B =50mA
V _{BE(on)}	-	-	1	V	V _{CE} =1V, I _C =150mA
h _{FE}	120	-	500		V _{CE} =1V, I _C =150mA
f _T	150	-	-	MHz	V _{CE} =10V, I _C =20mA, f=100MHz
C _{ob}	-	-	10	pF	V _{CB} =10V, f=1MHz

Classification Of hFE

Rank	D9C	D9D	D9E
hFE	120 ~ 200	150 ~ 300	250 ~ 500

Characteristics Curve



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