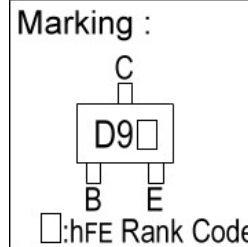
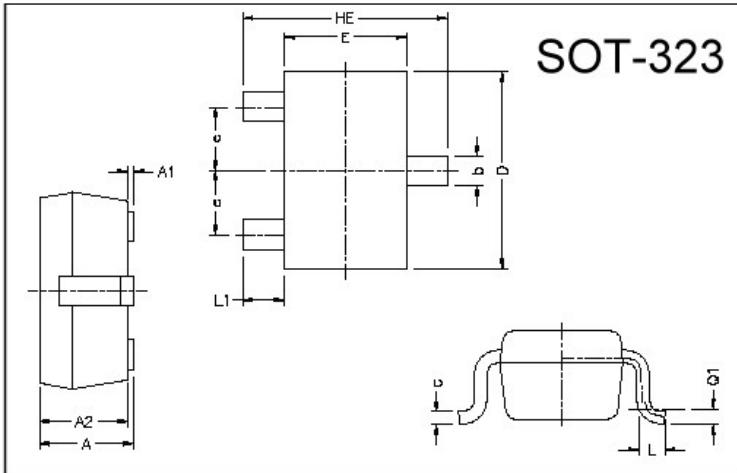


GSMBT8050 NPN EPITAXIAL TRANSISTOR

Description

The GSMBT8050 is designed for general purpose amplifier applications.

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

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 _{EBO}	5	V
Collector Current	I _c	700	mA
Total Power Dissipation	P _d	225	mW

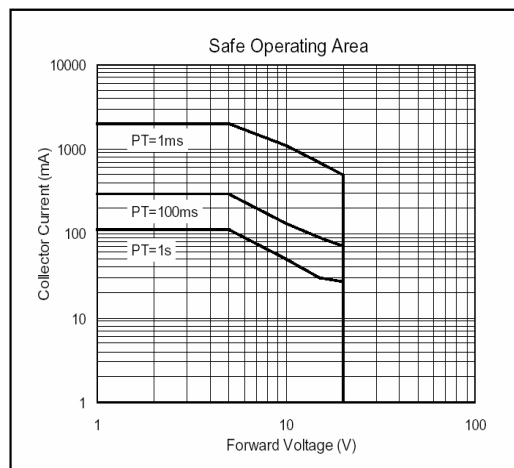
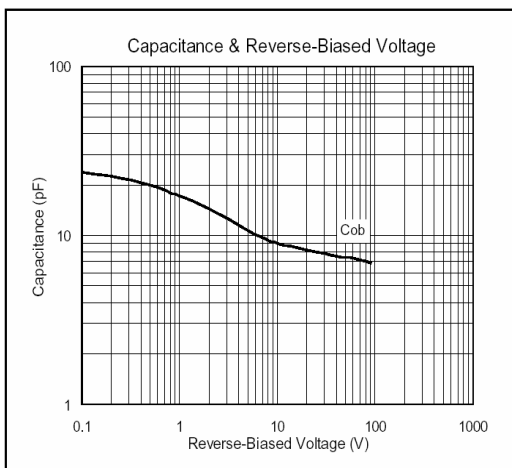
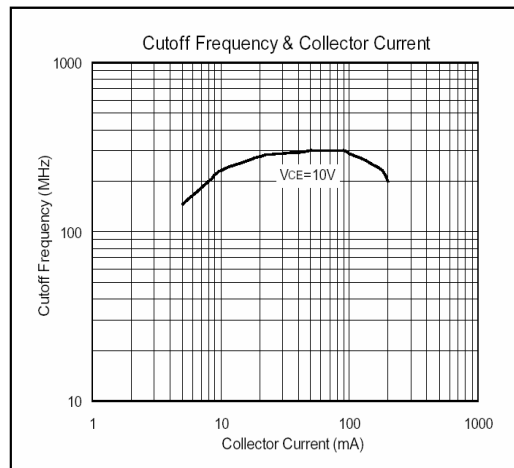
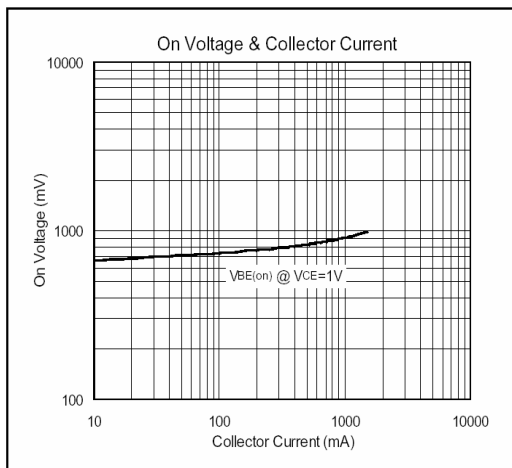
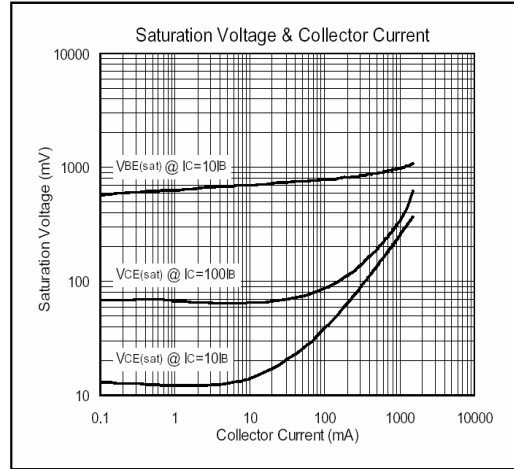
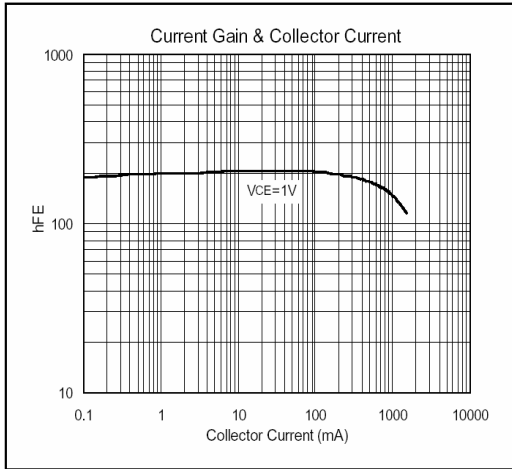
Electrical Characteristics (Ta = 25°C, unless otherwise noted)

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 _{EBO}	5	-	-	V	I _E =10uA, I _c =0
I _{CB0}	-	-	1	uA	V _{CB} =30V, I _E =0
I _{EBO}	-	-	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
Range	120 ~ 200	150 ~ 300	250 ~ 500

Characteristics Curve



Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
- TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
- TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165