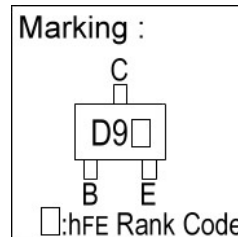
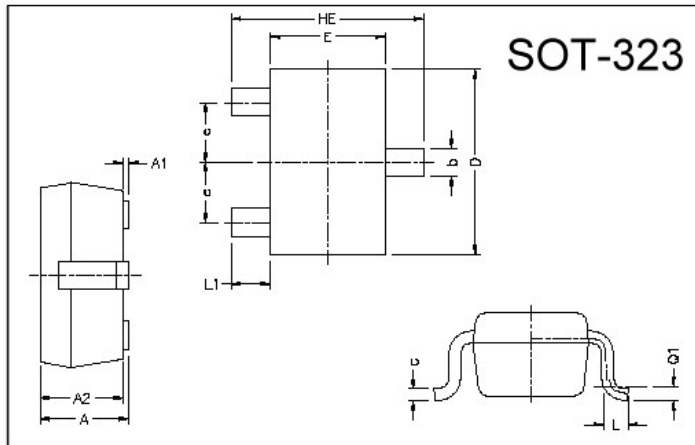


## GSMBT8050 NPN EPITAXIAL TRANSISTOR

### 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	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	Vcbo	25	V
Collector to Emitter Voltage	Vceo	20	V
Emitter to Base Voltage	Vebo	5	V
Collector Current	Ic	700	mA
Total Power Dissipation	Pd	225	mW

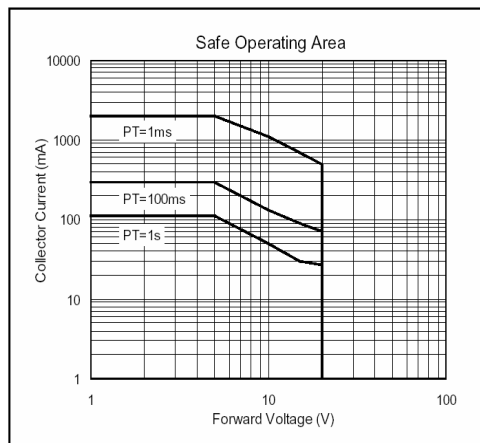
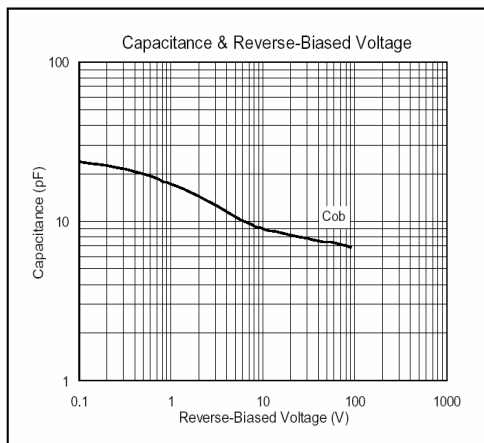
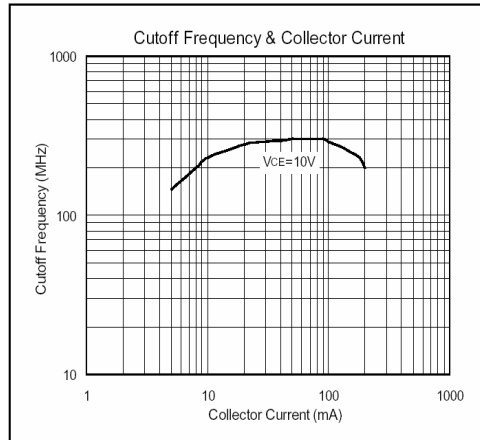
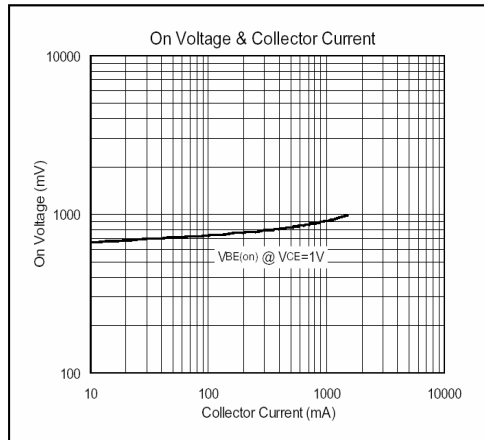
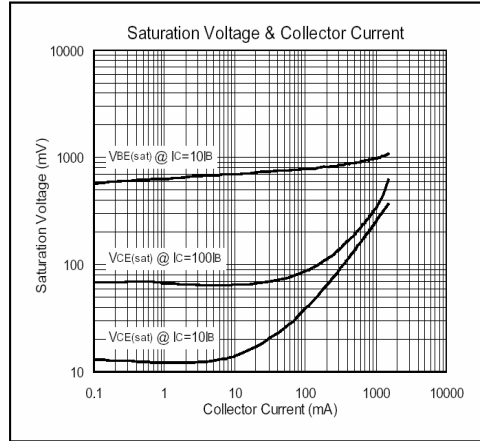
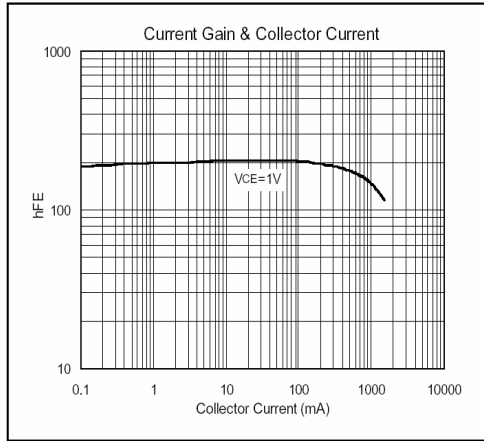
### Electrical Characteristics (Ta = 25°C, unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcbo	25	-	-	V	Ic=10uA, IE=0
BVceo	20	-	-	V	Ic=1mA, IB=0
BVebo	5	-	-	V	IE=10uA, Ic=0
Icbo	-	-	1	uA	Vcb=30V, IE=0
IEBO	-	-	100	nA	VEB=5V, Ic=0
VCE(sat)	-	-	500	mV	Ic=500mA, IB=50mA
VBE(on)	-	-	1	V	VCE=1V, Ic=150mA
hFE	120	-	500		VCE=1V, Ic=150mA
fT	150	-	-	MHz	VCE=10V, Ic=20mA, f=100MHz
Cob	-	-	10	pF	Vcb=10V, f=1MHz

### Classification Of hFE

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

## Characteristics Curve



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