

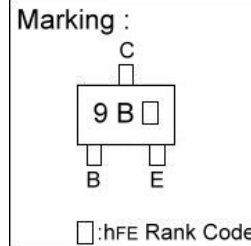
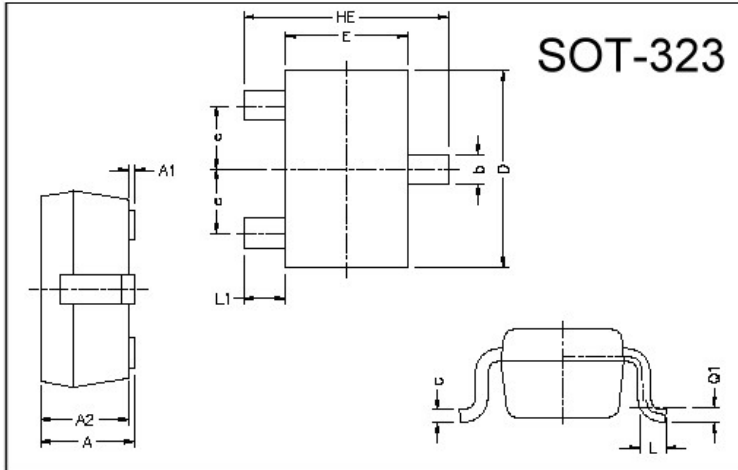
## GSBC857

### PNP EPITAXIAL PLANAR TRANSISTOR

#### Description

The GSBC857 is designed for switching and AF amplifier application suitable for automatic insertion in thick and thin-film circuits.

#### 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 <sub>j</sub>	+150	°C
Storage Temperature	T <sub>stg</sub>	-55 ~ +150	°C
Collector to Base Voltage	VCBO	-50	V
Collector to Emitter Voltage	VCEO	-45	V
Emitter to Base Voltage	VEBO	-6	V
Collector Current	I <sub>C</sub>	-100	mA
Total Power Dissipation	PD	225	mW

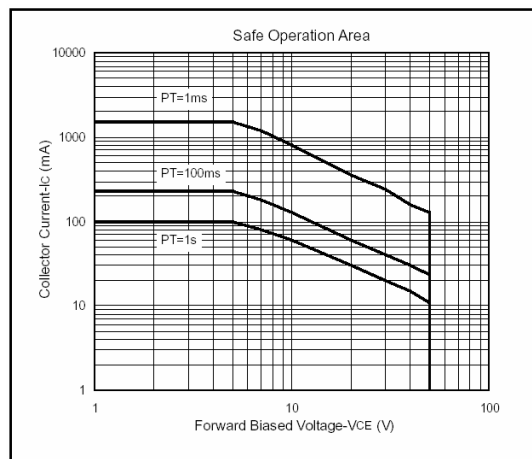
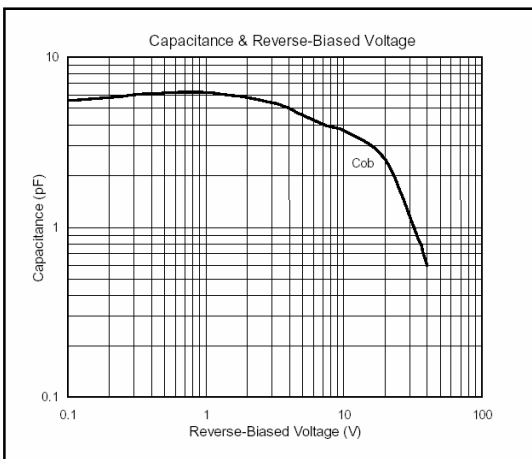
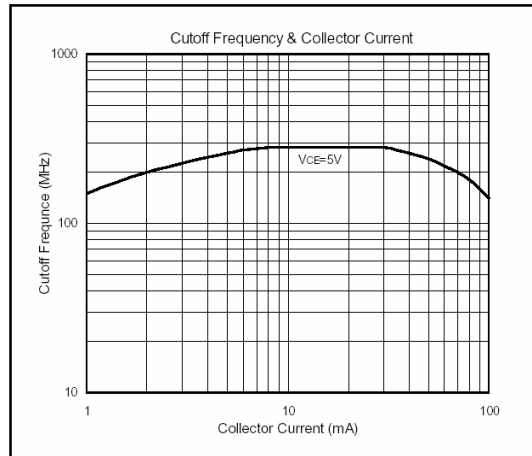
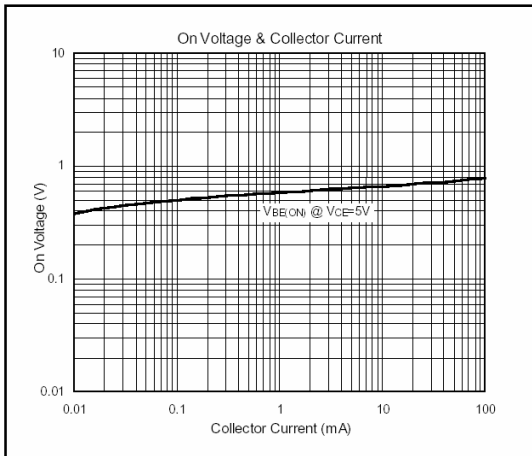
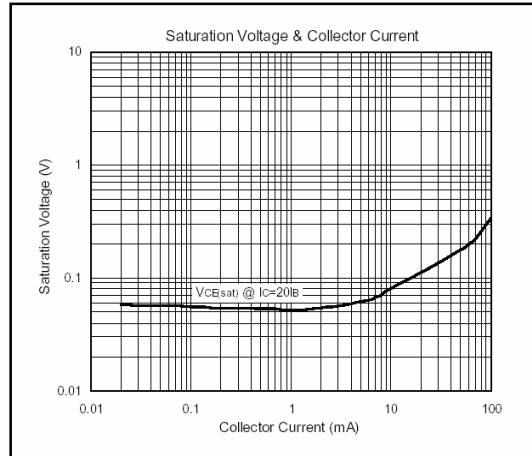
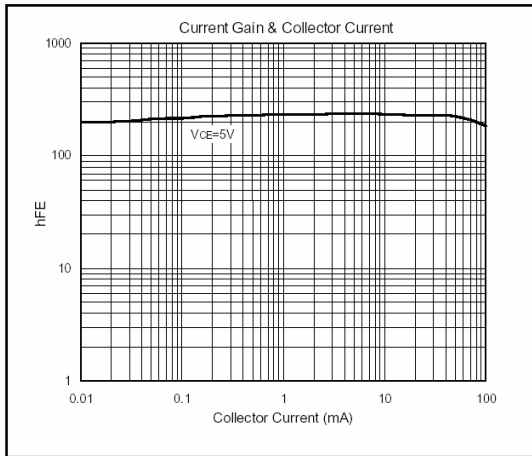
#### Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-50	-	-	V	I <sub>C</sub> =-100uA
BVCEO	-45	-	-	V	I <sub>C</sub> =-1mA
BVEBO	-6	-	-	V	I <sub>E</sub> =-10uA
ICBO	-	-	-15	nA	V <sub>CB</sub> =-30V
VCE(sat)1	-	-90	-300	mV	I <sub>C</sub> =-10mA, I <sub>B</sub> =-0.5mA
VCE(sat)2	-	-250	-650	mV	I <sub>C</sub> =-100mA, I <sub>B</sub> =-5mA
VBE(sat)1	-	-700	-	mV	I <sub>C</sub> =-10mA, I <sub>B</sub> =-0.5mA
VBE(sat)2	-	-900	-	mV	I <sub>C</sub> =-100mA, I <sub>B</sub> =-5mA
VBE(on)1	-600	-	-750	mV	V <sub>CE</sub> =-5V, I <sub>C</sub> =-2mA
VBE(on)2	-	-	-800	mV	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA
hFE	110	-	800		V <sub>CE</sub> =-5V, I <sub>C</sub> =-2mA
f <sub>T</sub>	-	150	-	MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA
C <sub>ob</sub>	-	-	6	pF	V <sub>CB</sub> =-10V, f=1MHz, I <sub>E</sub> =0A

#### Classification Of hFE

Rank	9BA	9BB	9BC
Range	110 - 220	200 - 450	420 - 800

## Characteristics Curve



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