

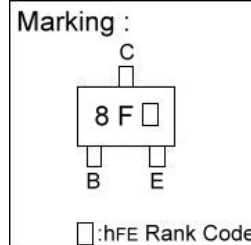
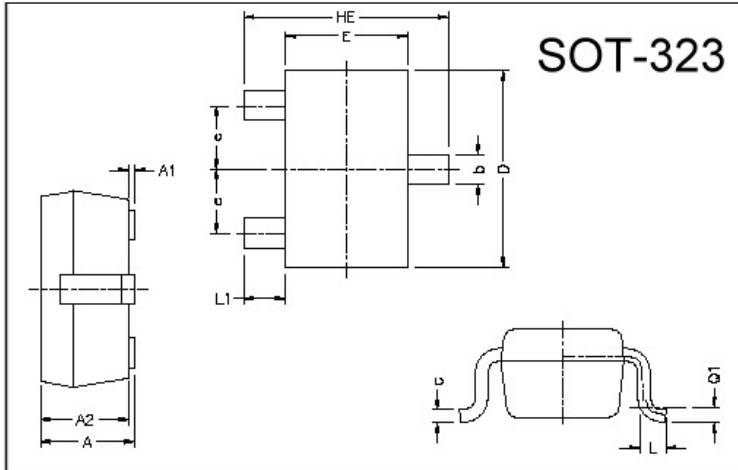
## GSBC817

### NPN EPITAXIAL PLANAR TRANSISTOR

#### Description

The GSBC817 is designed for switching and AF amplifier application, suitable for driver storages and low power output storages.

#### 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	50	V
Collector to Emitter Voltage	VCEO	45	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	IC	800	mA
Total Power Dissipation	PD	225	mW

#### Characteristics at Ta = 25°C

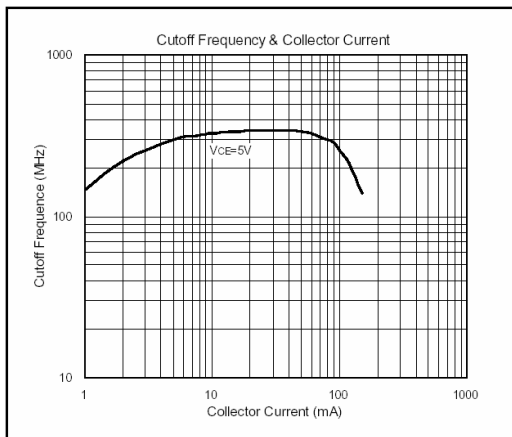
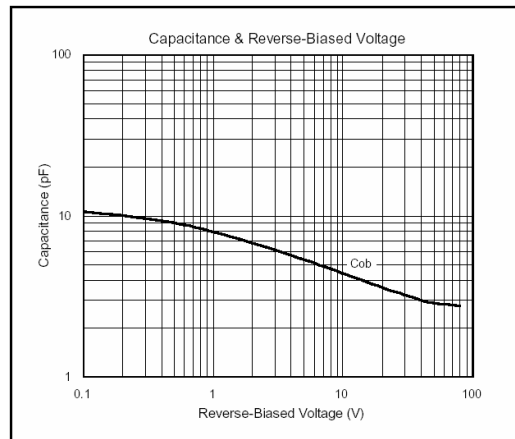
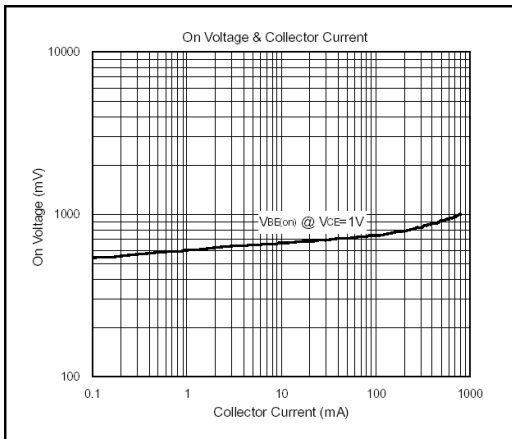
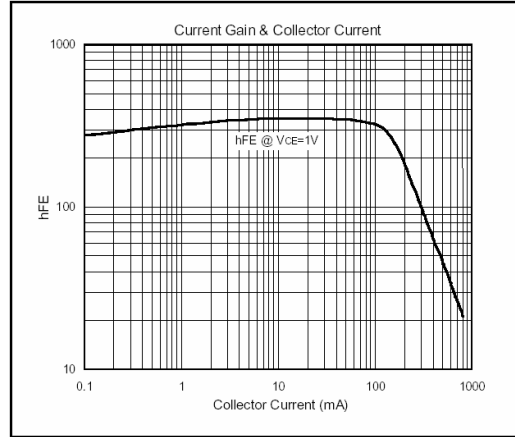
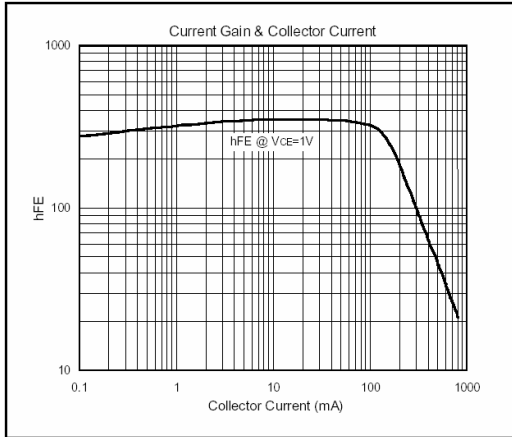
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	50	-	-	V	IC=100uA
BVCEO	45	-	-	V	IC=10mA
BVCES	50	-	-	V	IC=100uA
BVEBO	5	-	-	V	IE=100uA
ICES	-	-	100	nA	VCE=25V
IEBO	-	-	100	nA	VEB=4V
*VCE(sat)	-	-	700	mV	IC=500mA, IB=50mA
*VBE(on)	-	-	1.2	V	VCE=1V, IC=300mA
*hFE	100	-	630		VCE=1V, IC=100mA
fT	-	100	-	MHz	VCE=5V, IC=10mA, f=100MHz
Cob	-	-	12	pF	VCB=10V, f=1MHz, IE=0A

\* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

#### Classification Of hFE

Rank	8FA	8FB	8FC
Range	100 - 250	160 - 400	250 - 630

## Characteristics Curve



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