

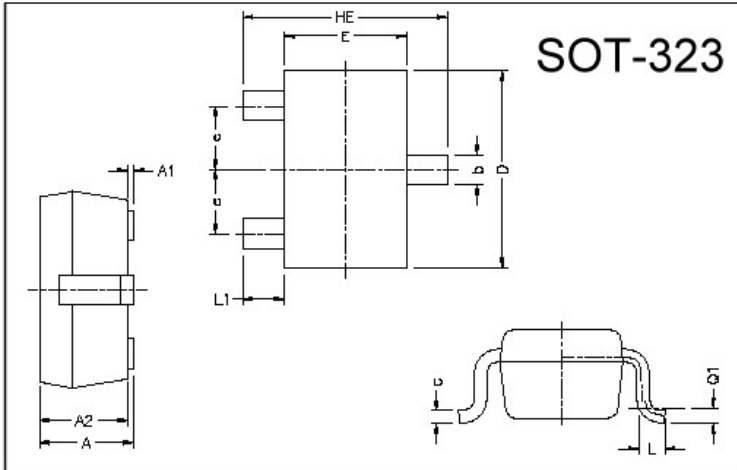
## GSMBT1815

### NPN EPITAXIAL PLANAR TRANSISTOR

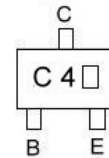
#### Description

The GSMBT1815 is designed for use in driver stage of AF amplifier and general purpose amplification.

#### Package Dimensions



Marking :



□: hFE Rank Code

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	60	V
Collector to Emitter Voltage	VCEO	50	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	IC	150	mA
Total Power Dissipation	PD	225	mW

#### Characteristics at Ta = 25°C

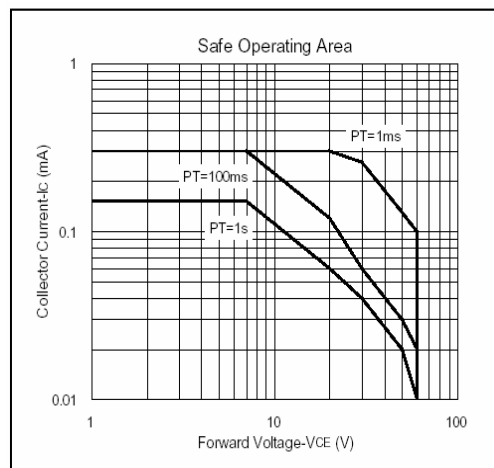
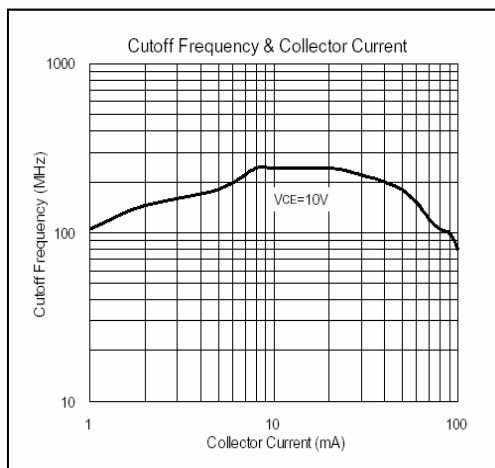
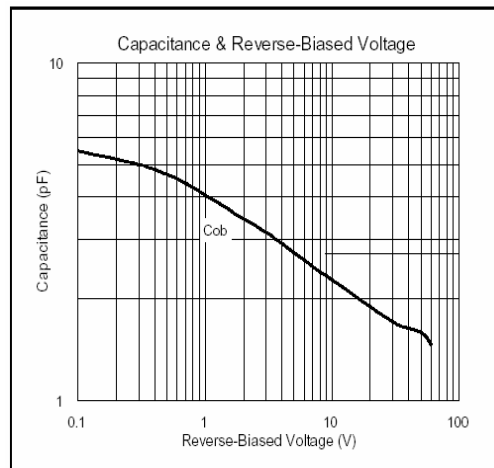
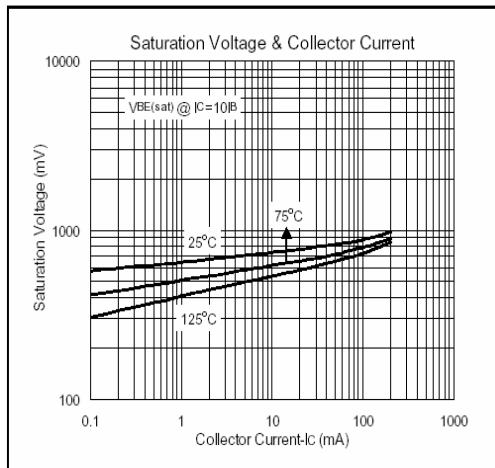
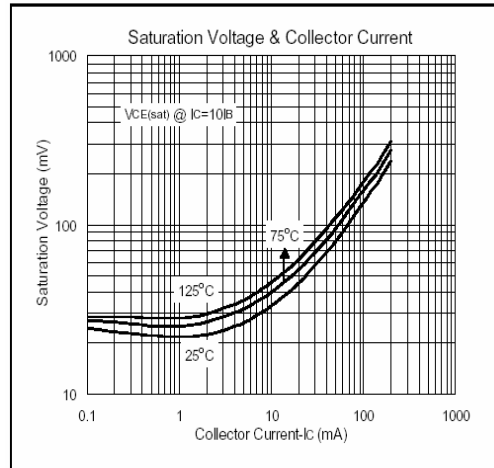
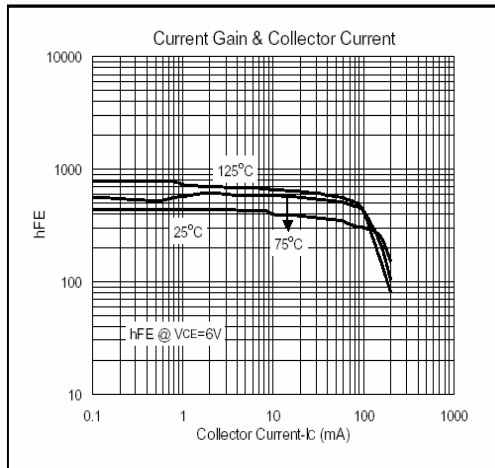
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	60	-	-	V	IC=100uA
BVCEO	50	-	-	V	IC=1mA
BVEBO	5	-	-	V	IE=10uA
ICBO	-	-	100	nA	VCB=60V
IEBO	-	-	100	nA	VEB=5V
*VCE(sat)	-	-	250	mV	IC=100mA, IB=10mA
*VBE(sat)	-	-	1	V	IC=100mA, IB=10mA
*hFE1	120	-	700		VCE=6V, IC=2mA
*hFE2	25	-	-		VCE=6V, IC=150mA
fT	80	-	-	MHz	VCE=10V, IC=1mA, f=100MHz
Cob	-	-	3.5	pF	VCB=10V, f=1MHz

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

#### Classification Of hFE1

Rank	C4Y	C4G	C4B
Range	120 - 240	200 - 400	350 - 700

## Characteristics Curve



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