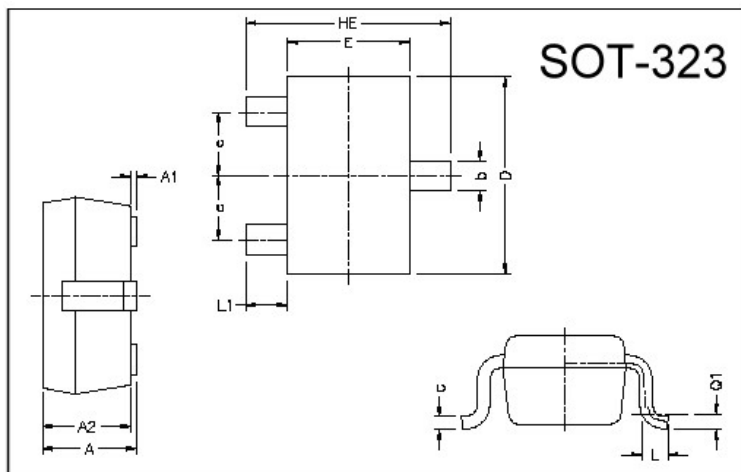


## GSMBT1015 PNP EPITAXIAL PLANAR TRANSISTOR

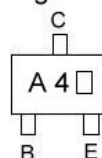
### Description

The GSMBT1015 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	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	-50	V
Emitter to Base Voltage	VEBO	-5	V
Collector Current	I <sub>C</sub>	-150	mA
Total Power Dissipation	PD	225	mW

### Characteristics at Ta = 25°C

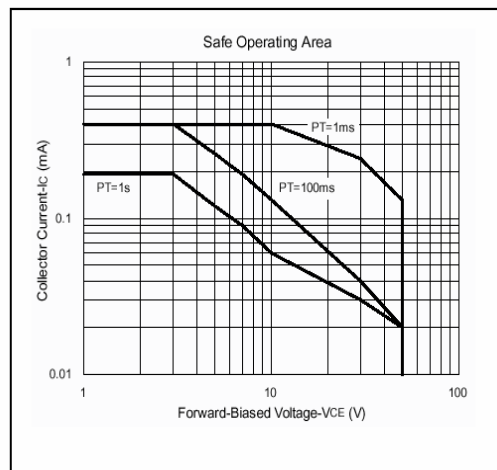
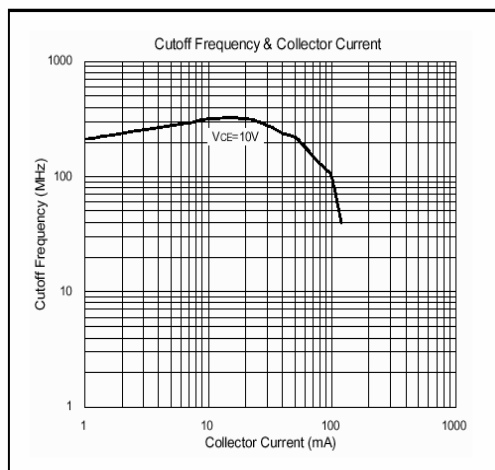
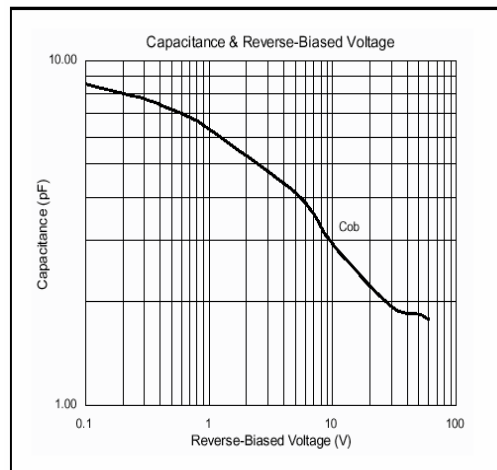
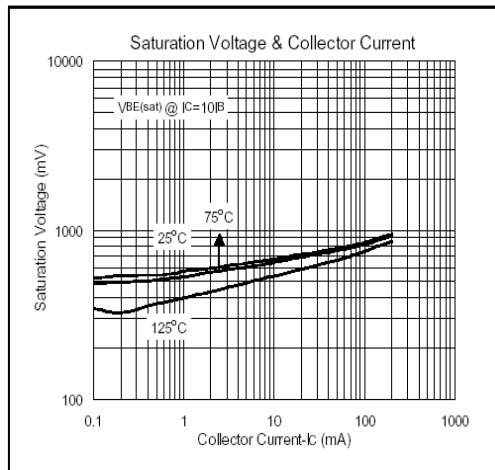
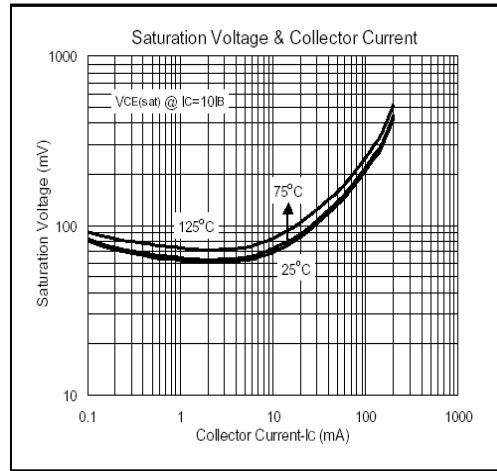
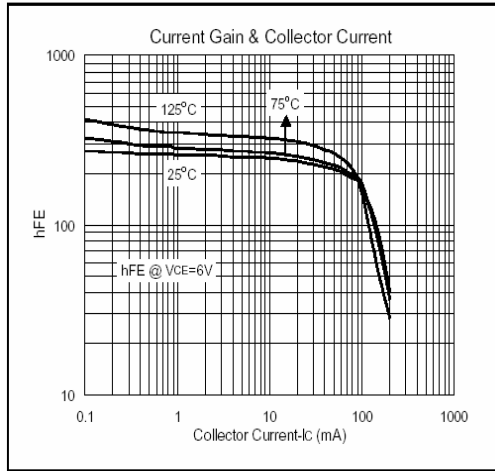
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-50	-	-	V	I <sub>C</sub> =-100uA
BVCEO	-50	-	-	V	I <sub>C</sub> =-1mA
BVEBO	-5	-	-	V	I <sub>E</sub> =-10uA
ICBO	-	-	-100	nA	V <sub>CB</sub> =-50V
IEBO	-	-	-100	nA	V <sub>EB</sub> =-5V
*VCE(sat)	-	-	-300	mV	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA
*VBE(sat)	-	-	-1.1	V	I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA
*hFE1	120	-	700		V <sub>CE</sub> =-6V, I <sub>C</sub> =-2mA
*hFE2	25	-	-		V <sub>CE</sub> =-6V, I <sub>C</sub> =-150mA
f <sub>T</sub>	80	-	-	MHz	V <sub>CE</sub> =-10V, I <sub>C</sub> =-1mA, f=100MHz
C <sub>ob</sub>	-	-	7	pF	V <sub>CB</sub> =-10V, f=1MHz, I <sub>E</sub> =0

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

### Classification Of hFE1

Rank	A4Y	A4G	A4B
Range	120-140	200-400	350-700

## Characteristics Curve



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