

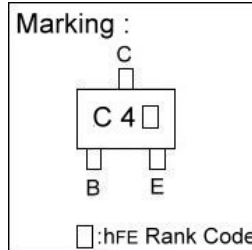
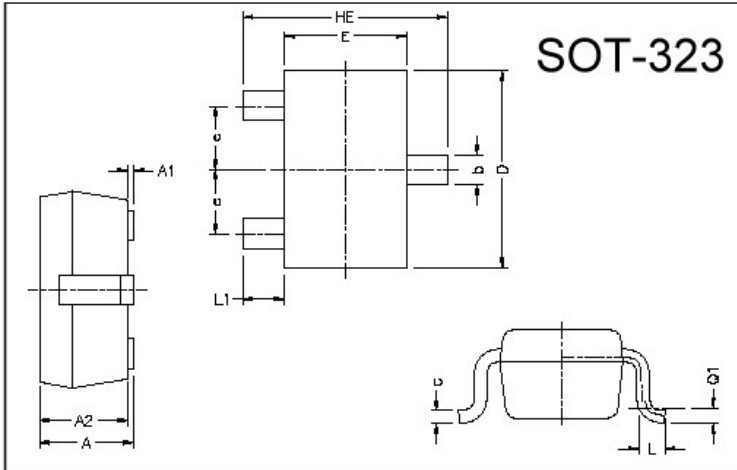
GSMBT1815

NPN EPITAXIAL PLANAR TRANSISTOR

Description

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

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 _j	+150	°C
Storage Temperature	T _{stg}	-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	I _C	150	mA
Total Power Dissipation	PD	225	mW

Characteristics at Ta = 25°C

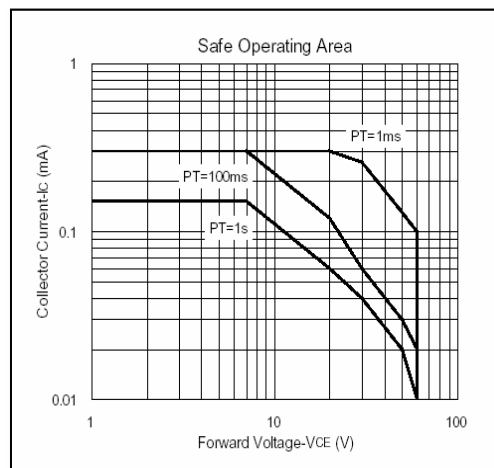
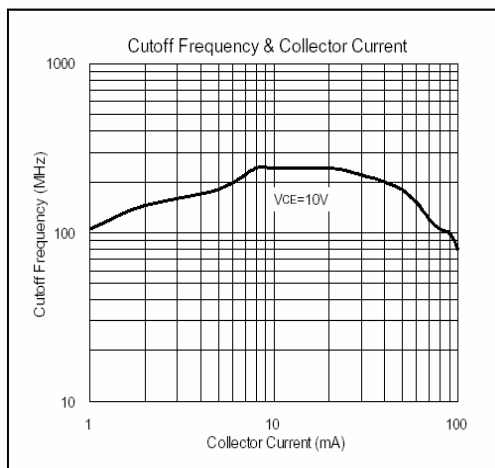
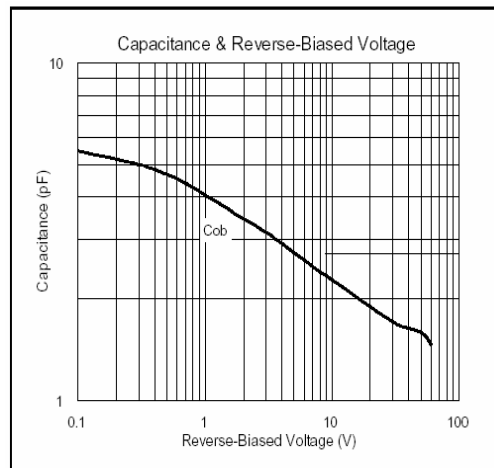
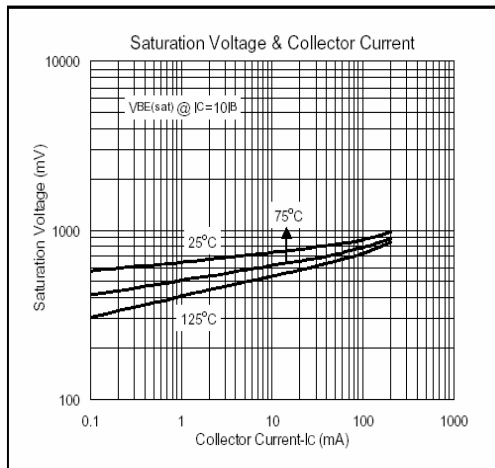
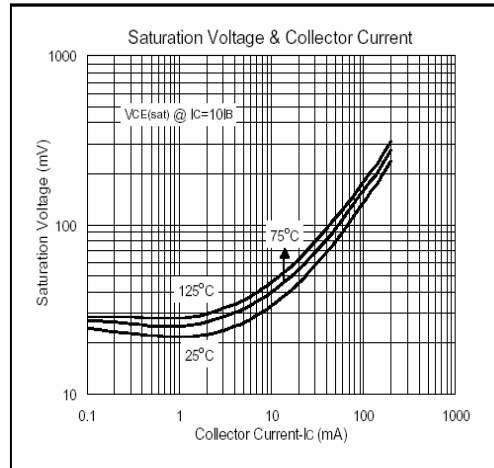
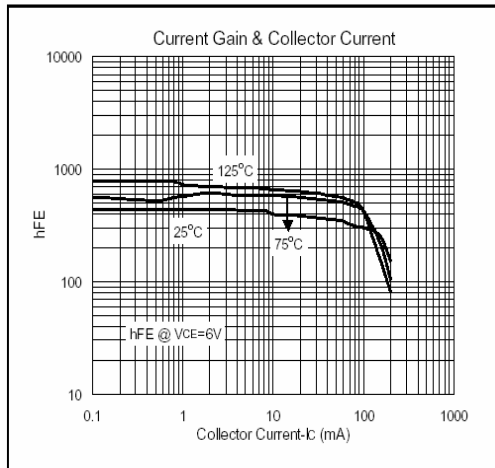
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	60	-	-	V	I _C =100uA
BVCEO	50	-	-	V	I _C =1mA
BVEBO	5	-	-	V	I _E =10uA
ICBO	-	-	100	nA	V _{CB} =60V
IEBO	-	-	100	nA	V _{EB} =5V
*VCE(sat)	-	-	250	mV	I _C =100mA, I _B =10mA
*VBE(sat)	-	-	1	V	I _C =100mA, I _B =10mA
*hFE1	120	-	700		V _{CE} =6V, I _C =2mA
*hFE2	25	-	-		V _{CE} =6V, I _C =150mA
f _T	80	-	-	MHz	V _{CE} =10V, I _C =1mA, f=100MHz
C _{ob}	-	-	3.5	pF	V _{CB} =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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