

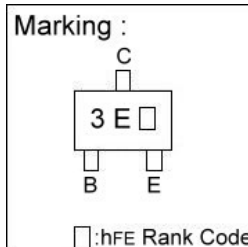
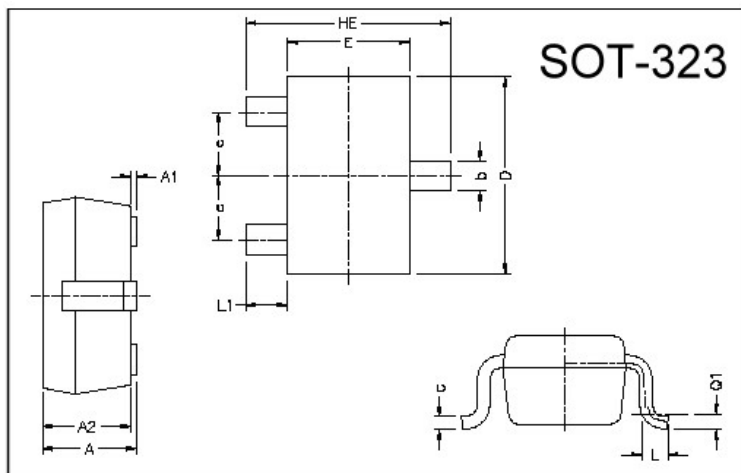
GSMBT9018

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GSMBT9018 is designed for use in AM/FM amplifier and local oscillator of FM/VHF tuner.

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	30	V
Collector to Emitter Voltage	VCEO	15	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	IC	50	mA
Total Power Dissipation	PD	225	mW

Characteristics at Ta = 25°C

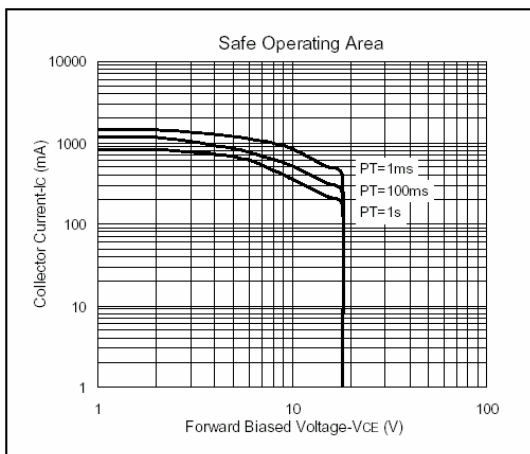
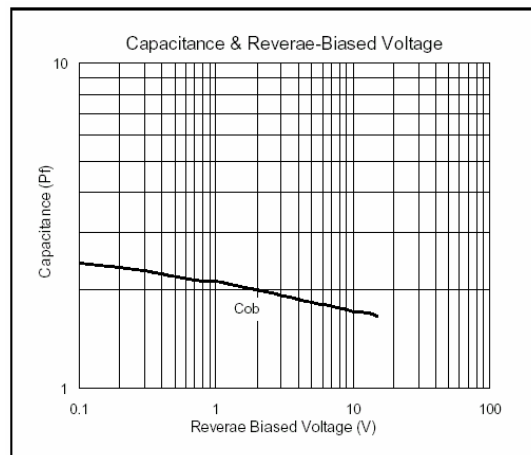
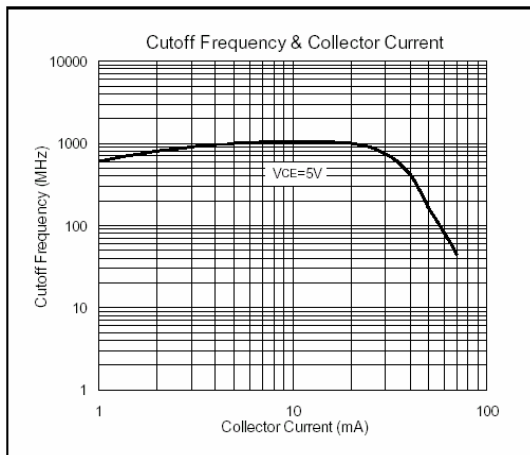
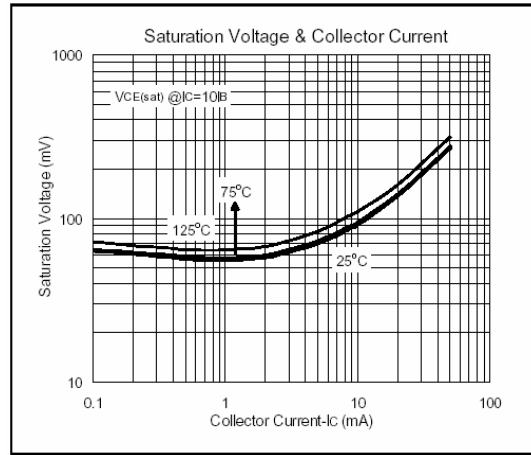
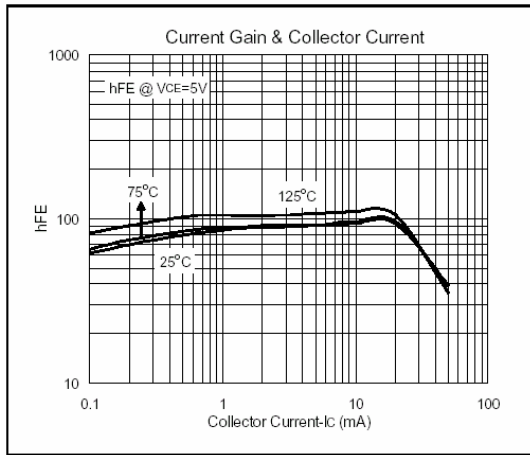
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	30	-	-	V	IC=100uA, IE=0
BVCEO	15	-	-	V	IC=1mA, IB=0
BVEBO	5	-	-	V	IE=100uA, IC=0
ICBO	-	-	50	nA	VCB=12V, IE=0
*VCE(sat)	-	-	0.5	V	IC=10mA, IB=1mA
*hFE	39	-	198		VCE=5V, IC=1mA
fT	700	1100	-	MHz	VCE=5V, IC=5mA
Cob	-	1.3	1.7	pF	VCB=10V, IE=0

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

Classification Of hFE

Rank	3EE	3EF	3EG	3EH	3EI
Range	39 - 60	54 - 80	72 - 108	97 - 146	132 - 198

Characteristics Curve



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