

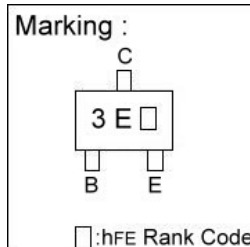
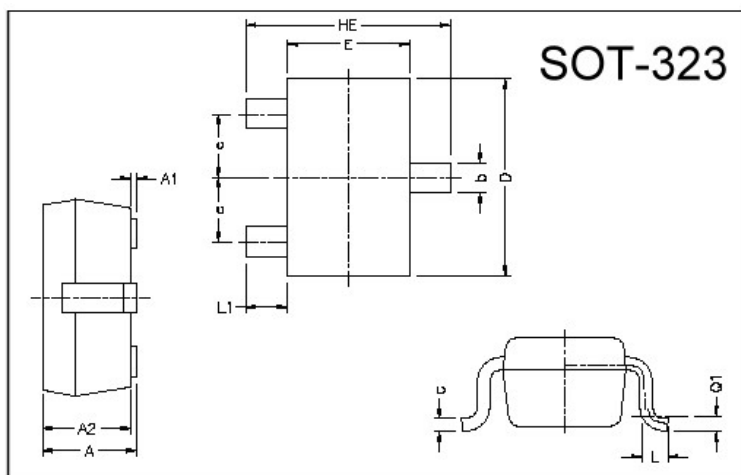
GSMBT9018

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	T _j	+150	°C
Storage Temperature	T _{stg}	-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	I _C	50	mA
Total Power Dissipation	PD	225	mW

Characteristics at Ta = 25°C

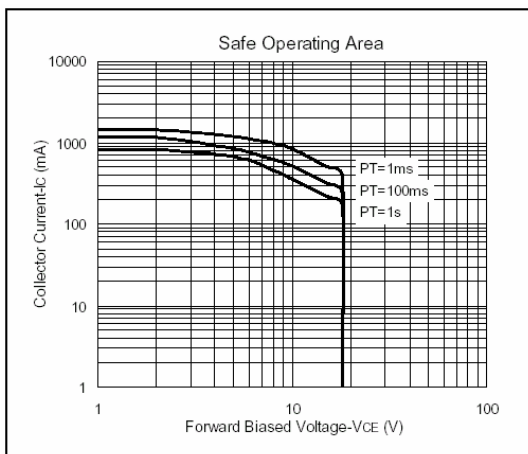
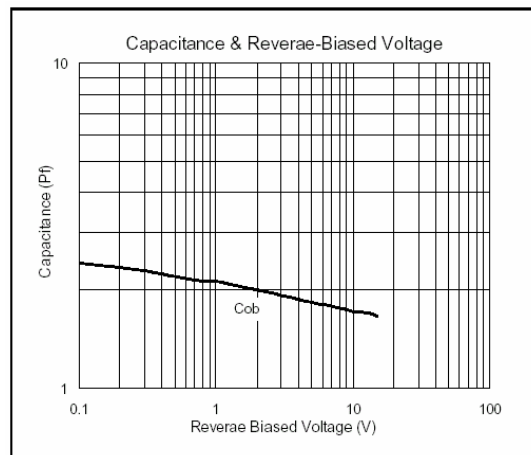
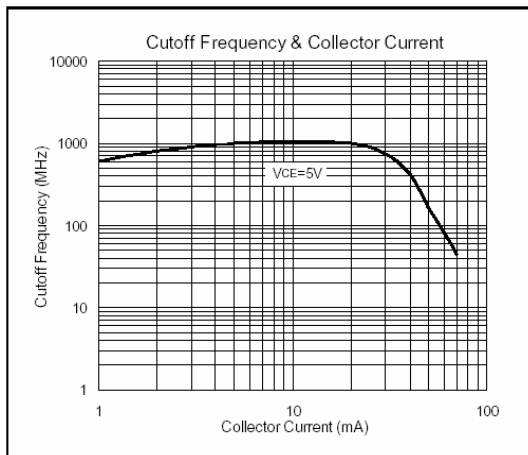
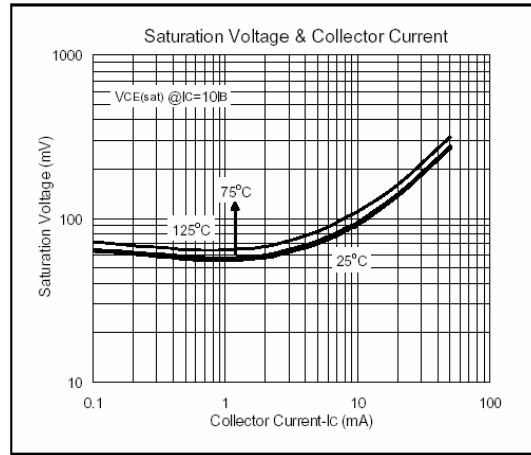
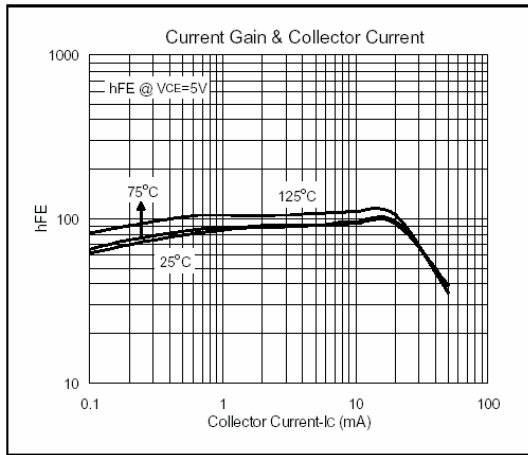
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	30	-	-	V	I _C =100μA, I _E =0
BVCEO	15	-	-	V	I _C =1mA, I _B =0
BVEBO	5	-	-	V	I _E =100μA, I _C =0
ICBO	-	-	50	nA	V _{CB} =12V, I _E =0
*VCE(sat)	-	-	0.5	V	I _C =10mA, I _B =1mA
*hFE	39	-	198		V _{CE} =5V, I _C =1mA
f _T	700	1100	-	MHz	V _{CE} =5V, I _C =5mA
C _{ob}	-	1.3	1.7	pF	V _{CB} =10V, I _E =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



Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
- TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
- TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165