

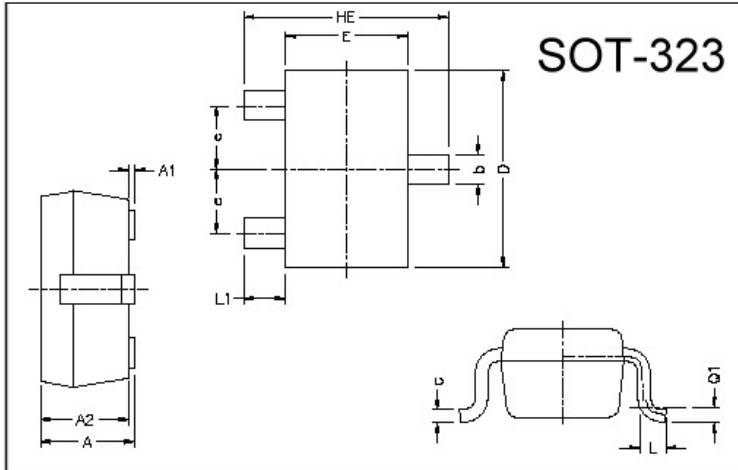
## GSMBTA92

### PNP EPITAXIAL PLANAR TRANSISTOR

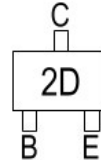
#### Description

The GSMBTA92 is designed for application as a video output to drive color CRT, or as a dialer circuit in electronics telephone.

#### Package Dimensions



Marking :



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

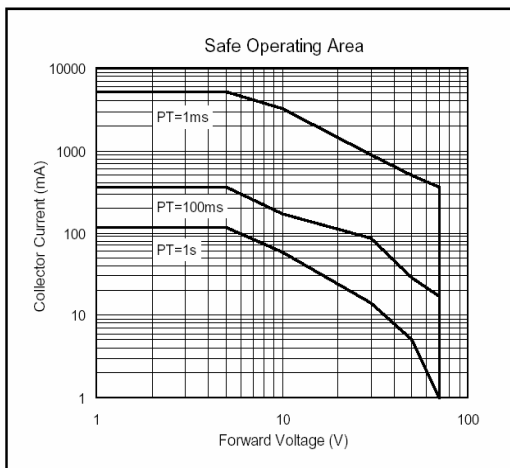
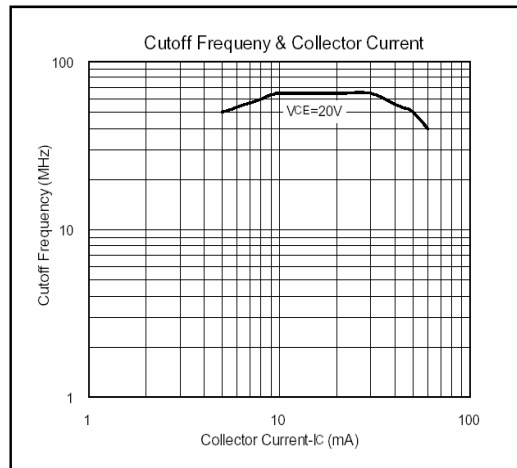
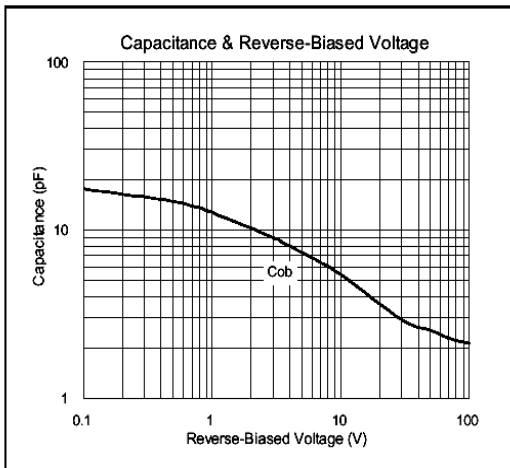
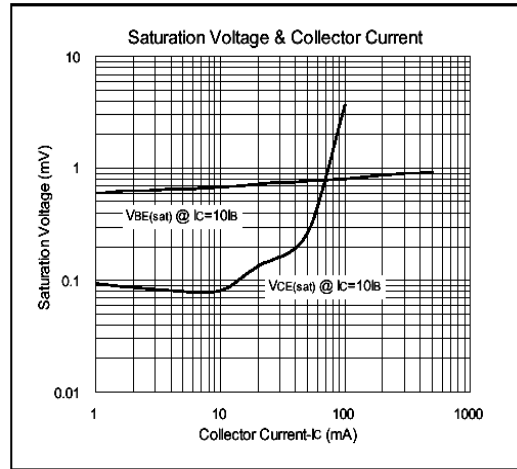
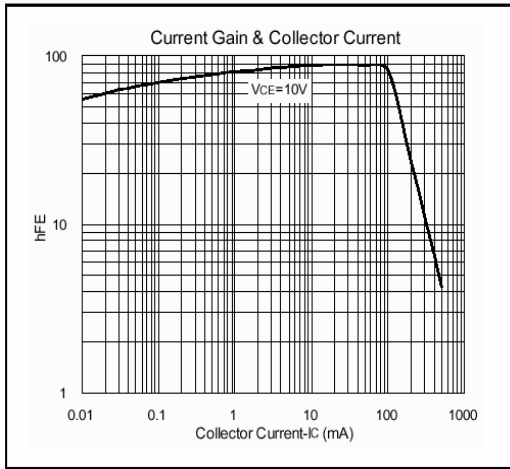
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	Vcbo	-300	V
Collector to Emitter Voltage	Vceo	-300	V
Emitter to Base Voltage	Vebo	-5	V
Collector Current	Ic	-500	mA
Total Power Dissipation	Pd	225	mW

#### Electrical Characteristics (Ta = 25°C, unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcbo	-300	-	-	V	Ic=-100uA, Ie=0
BVceo	-300	-	-	V	Ic=-1mA, Ib=0
BVebo	-5	-	-	V	Ie=-10uA, Ic=0
Icbo	-	-	-100	nA	Vcb=-200V, Ie=0
Iebo	-	-	-100	nA	VEB=-3V, Ic=0
*VCE(sat)	-	-	-500	mV	Ic=-20mA, Ib=-2mA
*VBE(sat)	-	-	-900	mV	Ic=-20mA, Ib=-2mA
*hFE1	25	-	-		VCE=-10V, Ic=-1mA
*hFE2	40	-	-		VCE=-10V, Ic=-10mA
*hFE3	25	-	-		VCE=-10V, Ic=-30mA
fT	50	-	-	MHz	VCE=-20V, Ic=-10mA, f=100MHz
Cob	-	-	6	pF	Vcb=-20V, Ie=0, f=1MHz

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

## 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