

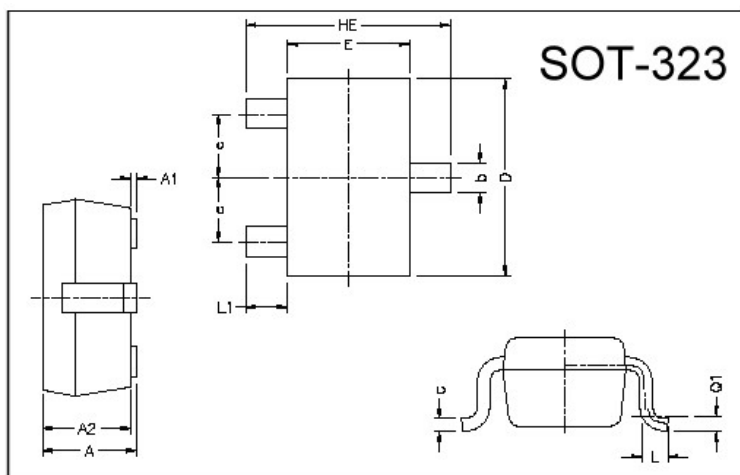
GSMBTA06

NPN SILICON TRANSISTOR

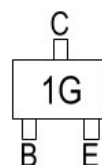
Description

The GSMBTA06 is designed for general purpose amplifier applications.

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

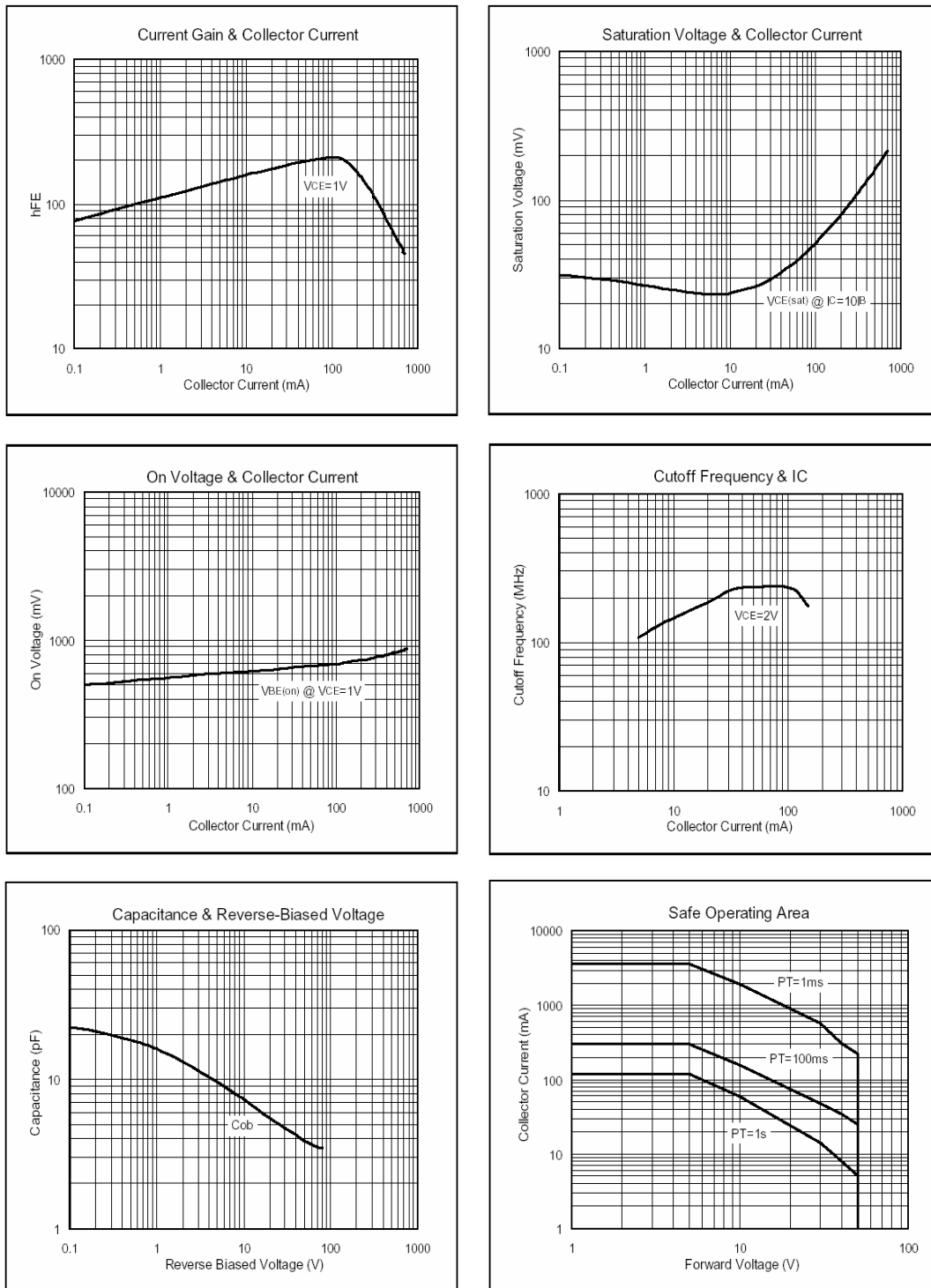
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	80	V
Collector to Emitter Voltage	VCEO	80	V
Emitter to Base Voltage	VEBO	4	V
Collector Current	Ic	500	mA
Total Power Dissipation	Pd	225	mW

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

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	80	-	-	V	I _c =100μA, I _E =0
BV _{CE0}	80	-	-	V	I _c =1mA, I _B =0
BV _{EB0}	4	-	-	V	I _E =100μA, I _c =0
I _{CB0}	-	-	100	nA	V _{CB} =80V, I _E =0
I _{CE0}	-	-	100	nA	V _{CE} =80V, I _B =0
*V _{CE(sat)}	-	-	250	mV	I _c =100mA, I _B =10mA
*V _{BE(on)}	-	-	1.2	V	V _{CE} =1V, I _c =100mA
*h _{FE1}	50	-	-		V _{CE} =1V, I _c =10mA
*h _{FE2}	50	-	-		V _{CE} =1V, I _c =100mA
f _T	100	-	-	MHz	V _{CE} =2V, I _c =10mA, f=100MHz

* 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