

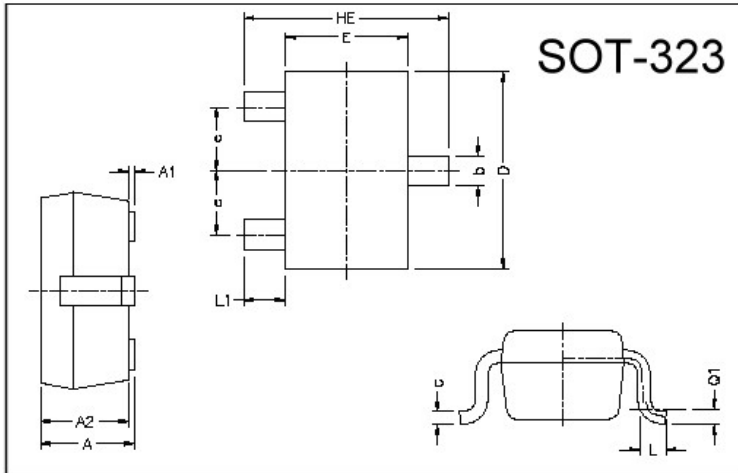
## GSMBTA44

### NPN EPITAXIAL PLANAR TRANSISTOR

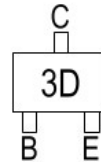
#### Description

The GSMBTA44 is designed for application requires high voltage.

#### 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

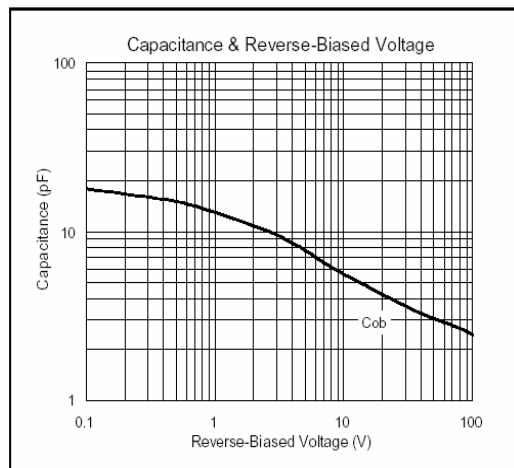
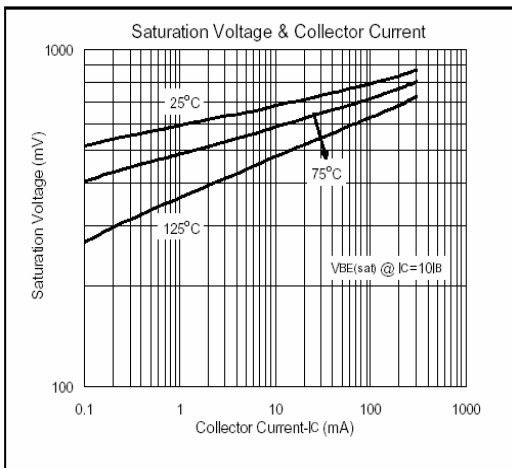
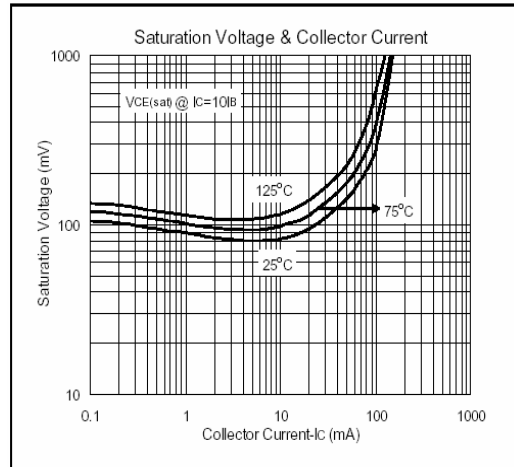
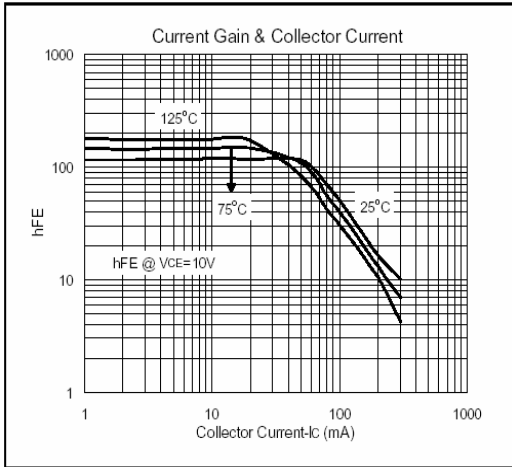
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	Vcbo	500	V
Collector to Emitter Voltage	Vceo	400	V
Emitter to Base Voltage	Vebo	6	V
Collector Current	Ic	300	mA
Total Power Dissipation	Pd	350	mW

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

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcbo	500	-	-	V	Ic=100uA, Ie=0
BVceo	400	-	-	V	Ic=1mA, Ib=0
BVebo	6	-	-	V	Ie=10uA, Ic=0
Icbo	-	-	100	nA	Vcb=400V, Ie=0
Iebo	-	-	100	nA	VEB=4V, Ic=0
ICES	-	-	500	nA	VCE=400V, Ib=0
*VCE(sat)1	-	-	375	mV	Ic=20mA, Ib=2mA
*VCE(sat)2	-	-	750	mV	Ic=50mA, Ib=5mA
*VBE(sat)	-	-	750	mV	Ic=10mA, Ib=1mA
*hFE1	40	-	-		VCE=10V, Ic=1mA
*hFE2	40	-	-		VCE=10V, Ic=10mA
*hFE3	45	-	-		VCE=10V, Ic=50mA
*hFE4	40	-	-		VCE=10V, Ic=100mA
Cob	-	4	6	pF	Vcb=20V, Ie=0, f=1MHz

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

## Characteristics Curve



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