

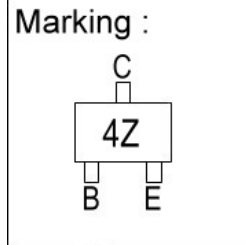
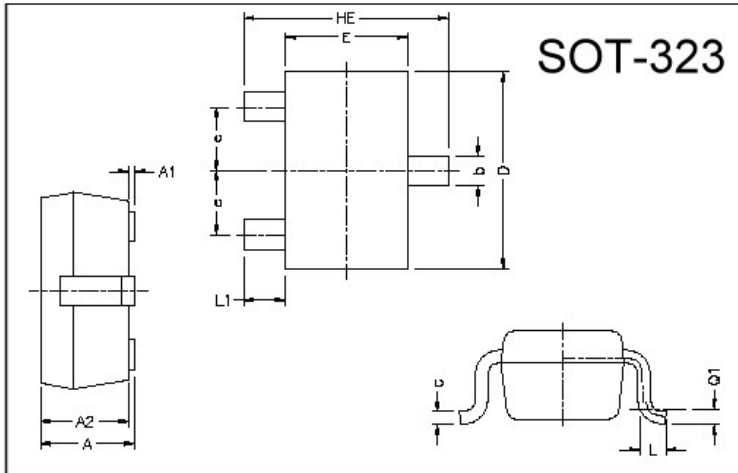
## GSMBTA94

### PNP EPITAXIAL PLANAR TRANSISTOR

#### Description

The GSMBTA94 is designed for application requires high voltage.

#### 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

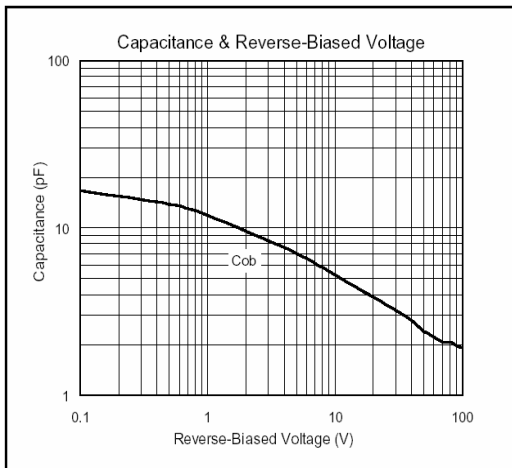
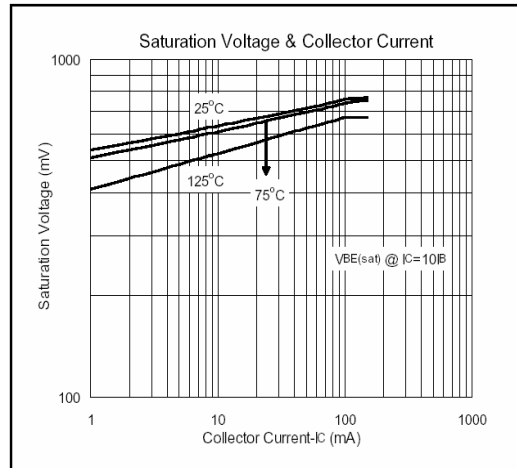
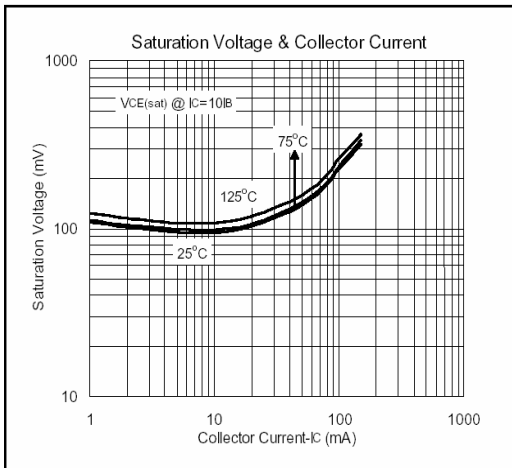
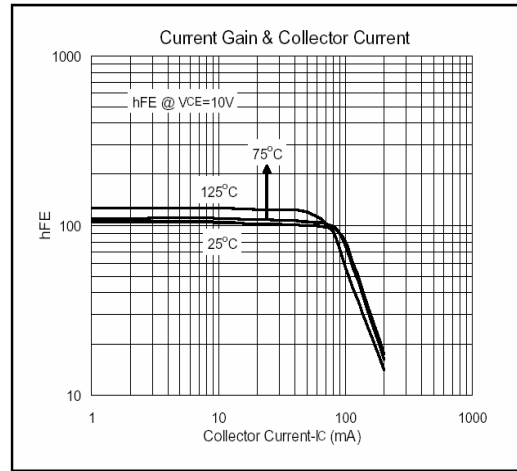
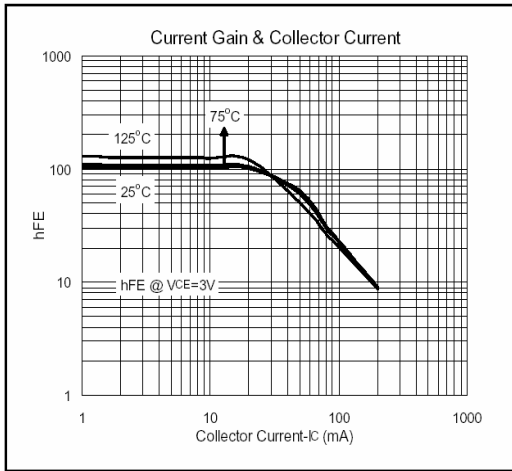
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	-400	V
Collector to Emitter Voltage	VCEO	-400	V
Emitter to Base Voltage	VEBO	-6	V
Collector Current	Ic	-300	mA
Total Power Dissipation	Pd	350	mW

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

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-400	-	-	V	Ic=-100uA, IE=0
BVCEO	-400	-	-	V	Ic=-1mA, Ib=0
BVEBO	-6	-	-	V	IE=-10uA, Ic=0
IcBO	-	-	-100	nA	VCB=-200V, IE=0
IEBO	-	-	-100	nA	VEB=-3V, Ic=0
*VCE(sat)1	-	-	-350	mV	Ic=-1mA, Ib=-0.1mA
*VCE(sat)2	-	-	-500	mV	Ic=-20mA, Ib=-2mA
*VCE(sat)3	-	-	-750	mV	Ic=-50mA, Ib=-5mA
*VBE(sat)	-	-	-750	mV	Ic=-10mA, Ib=-1mA
*hFE1	40	-	-		VCE=-10V, Ic=-1mA
*hFE2	50	-	-		VCE=-10V, Ic=-10mA
*hFE3	45	-	-		VCE=-10V, Ic=-50mA
*hFE4	40	-	-		VCE=-10V, Ic=-100mA
Cob	-	-	6	pF	VCB=-10V, IE=0, f=1MHz

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

## Characteristics Curve



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