

# GMPSA94

## PNP EPITAXIAL PLANAR TRANSISTOR

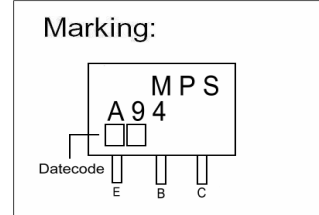
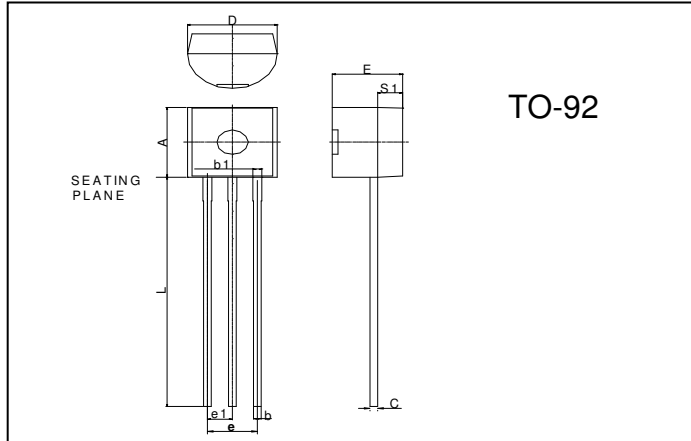
### Description

The GMPSA94 is designed for application that requires high voltage.

### Features

- \*High Breakdown Voltage:-400(Min) at IC=-1mA
- \*High current .Gain :IC=-300mA at 25°C
- \*Complementary to GMPSA44

### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

### Absolute Maximum Ratings (Ta = 25°C, unless otherwise specified)

Parameter		Ratings	Unit
Collector to Base Voltage	VCBO	-400	V
Collector to Emitter Voltage	VCEO	-400	V
Emitter to Base Voltage	VEBO	-6	V
Collect Current(DC)	Ic	-300	mA
Junction Temperature	Tj	+150	°C
Storage Temperature Range	TSTG	-55 ~ +150	°C
Total Power Dissipation	Pd	625	mW

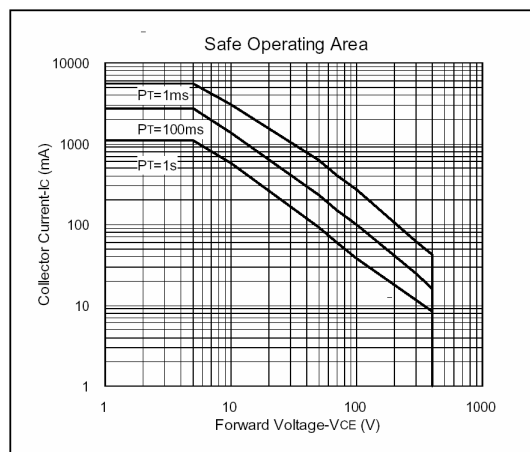
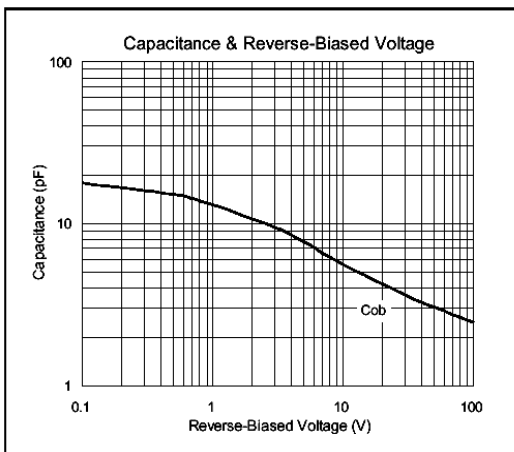
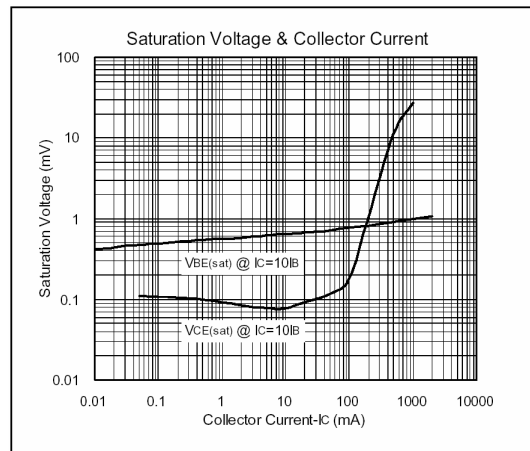
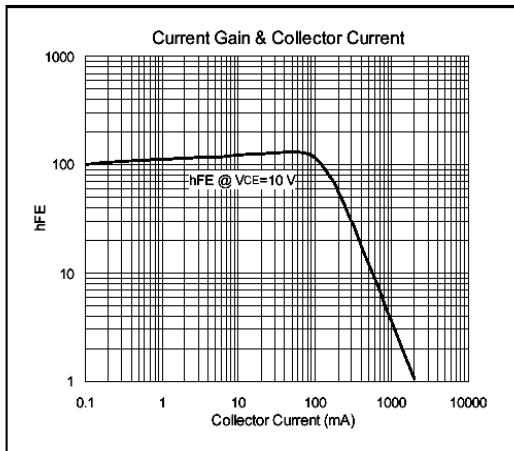
### Electrical Characteristics (Ta = 25°C, unless otherwise specified)

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	VCE=-400V, IE=0
IEBO	-	-	-100	nA	VEB=-4V, IC=0
ICES	-	-	-500	nA	VCE=-400V, VBE=0
VCE(sat)1	-	-	-350	mV	IC=-1.0mA, IB=-0.1mA
VCE(sat)2	-	-	-500	mV	IC=-10mA, IB=-1mA
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	-	300		VCE=-10V, IC=-10mA
hFE3	45	-	-		VCE=-10V, IC=-50mA
hFE4	40	-	-		VCE=-10V, IC=-100mA

### Classification of hFE2

Rank	N	NS	SD	SUM
Range	50-300	70-300	70-210	120-300
VCE(sat)2: IC=-10mA, IB=-1mA	-	-	<200mV	-
hFE: VCE=3V, IC=100mA	-	>50	-	-

## Characteristics Curve



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