

## PNP High Voltage Amplifier

## MMBTA92

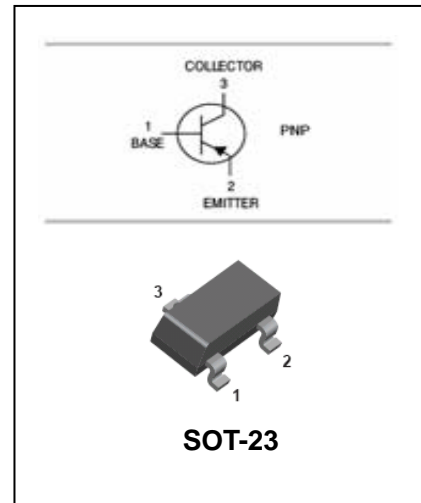
### FEATURES

- Epitaxial planar die construction.
- Complementary NPN type available (MMBTA42).
- Ideal for medium power amplification and switching.



### APPLICATIONS

- High voltage driver applications.



### ORDERING INFORMATION

Type No.	Marking	Package Code
MMBTA92	2D	SOT-23

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	UNIT
V <sub>CBO</sub>	collector-base voltage	-300	V
V <sub>CEO</sub>	collector-emitter voltage	-300	V
V <sub>EBO</sub>	emitter-base voltage	-5	V
I <sub>C</sub>	collector current (DC)	-0.1	A
P <sub>C</sub>	Collector dissipation	0.35	W
T <sub>j</sub> , T <sub>stg</sub>	junction and storage temperature	-55-150	°C

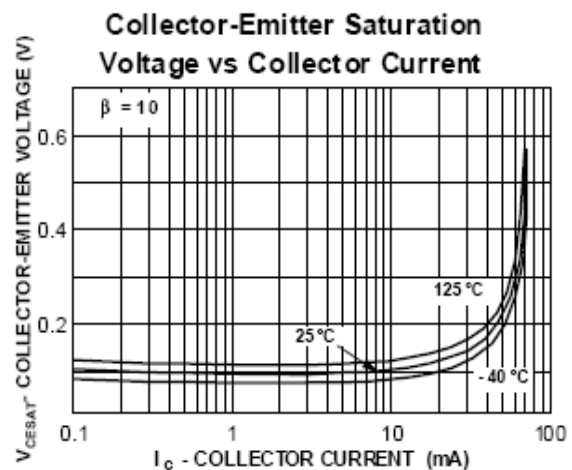
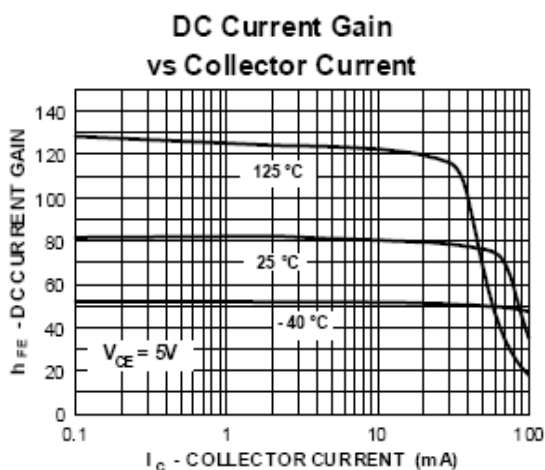
### ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

## PNP High Voltage Amplifier

## MMBTA92

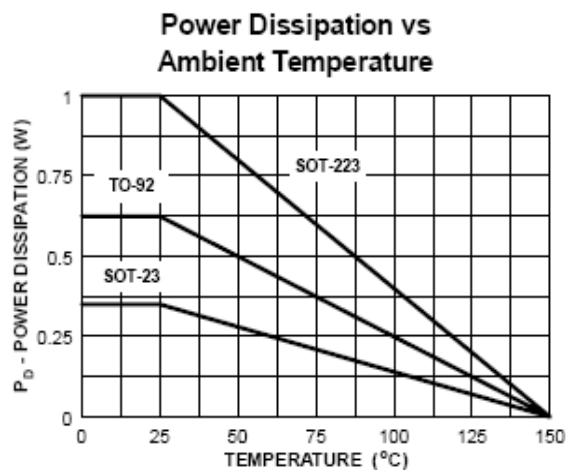
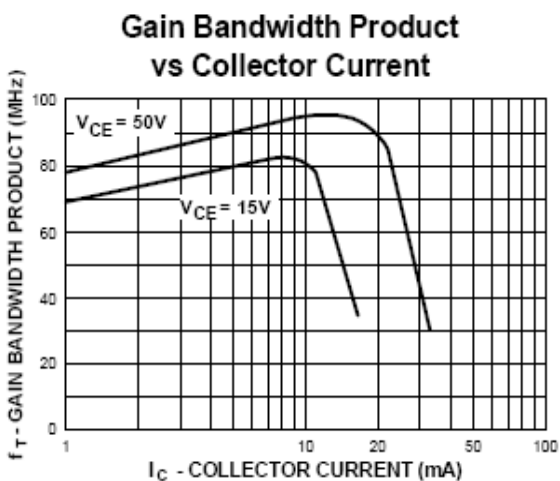
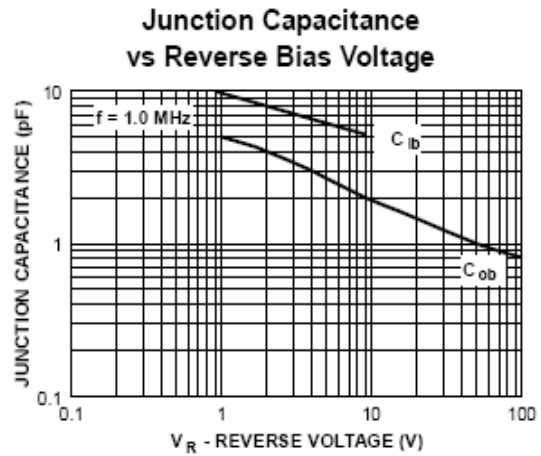
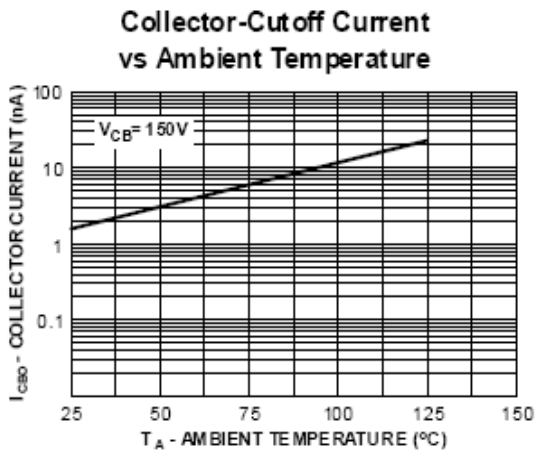
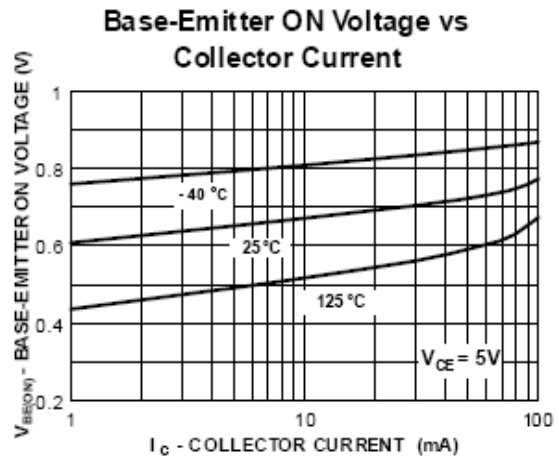
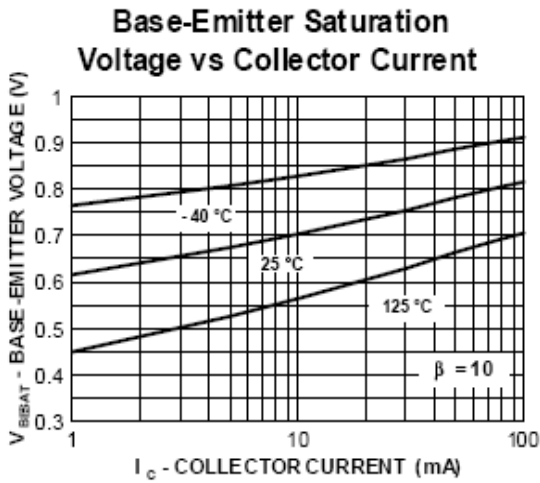
Symbol	Parameter	Test conditions	MIN.	MAX.	UNIT
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -100\mu A, I_E = 0$	-300		
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -1mA, I_B = 0$	-300		
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu A, I_C = 0$	-5		
$I_{CBO}$	collector cut-off current	$I_E = 0; V_{CB} = -200V$	-	-0.1	$\mu A$
$I_{EBO}$	emitter cut-off current	$I_C = 0; V_{EB} = -3V$	-	-0.1	$\mu A$
$h_{FE}$	DC current gain	$V_{CE} = -10V; I_C = -1mA$ $V_{CE} = -10V; I_C = -10mA$ $V_{CE} = -10V; I_C = -50mA$	25 40 25		
$V_{CE(sat)}$	collector-emitter saturation voltage	$I_C = -20mA; I_B = -2mA$	-	-0.5	V
$V_{BE(sat)}$	base-emitter saturation voltage	$I_C = -20mA; I_B = -2mA$	-	-0.9	V
$C_{ob}$	Collector output capacitance	$V_{CB} = -20V, f = 1.0MHz$	6.0		pF
$f_T$	transition frequency	$I_C = -10mA; V_{CE} = -20V;$ $f = 100MHz$	50	-	MHz

TYPICAL CHARACTERISTICS @  $T_a = 25^\circ C$  unless otherwise specified



## PNP High Voltage Amplifier

## MMBTA92



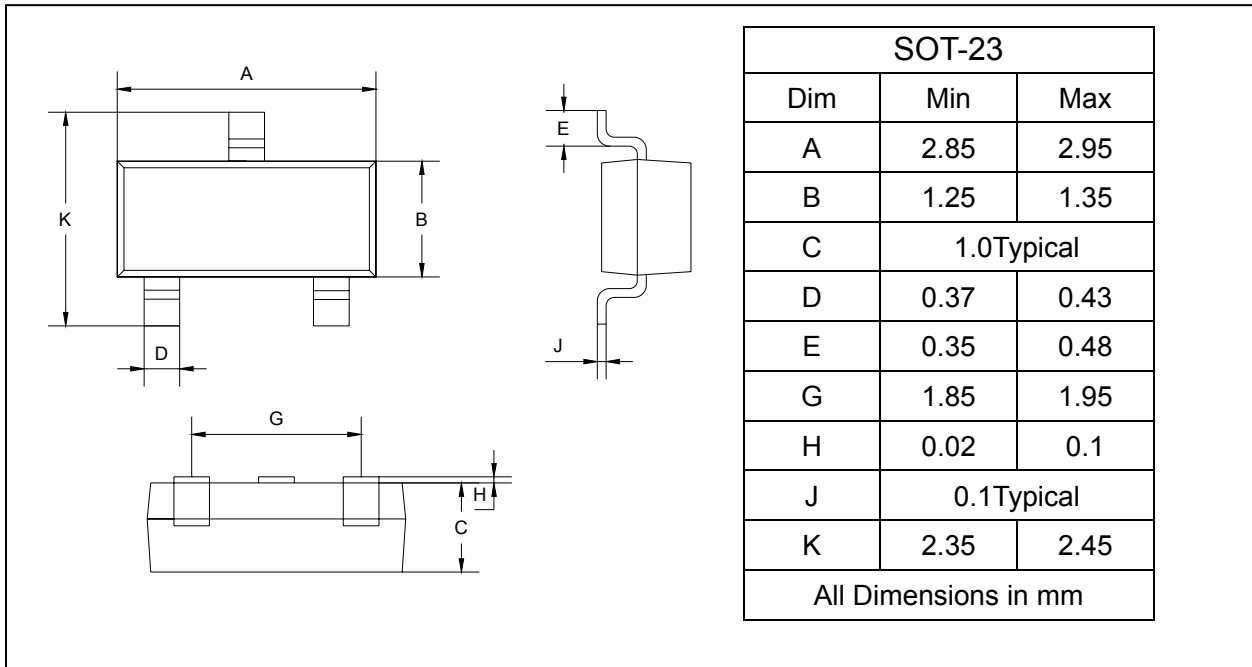
## PNP High Voltage Amplifier

## MMBTA92

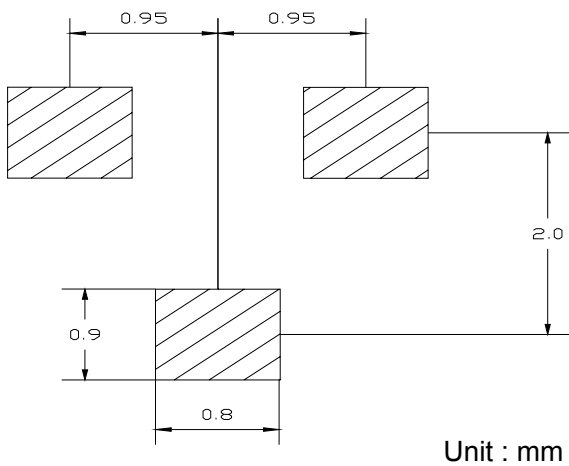
### PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
MMBTA92	SOT-23	3000/Tape&Reel