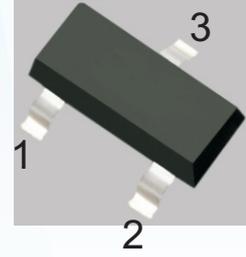


**MMBTA92**  
**PNP TRANSISTOR**
**FEATURES**

- High Voltage Transistor

**SOT-23**

1.BASE  
 2.EMITTER  
 3.COLLECTOR

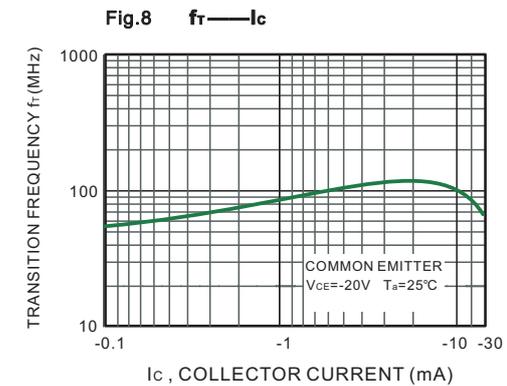
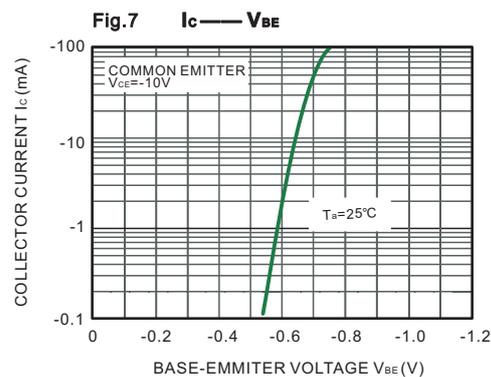
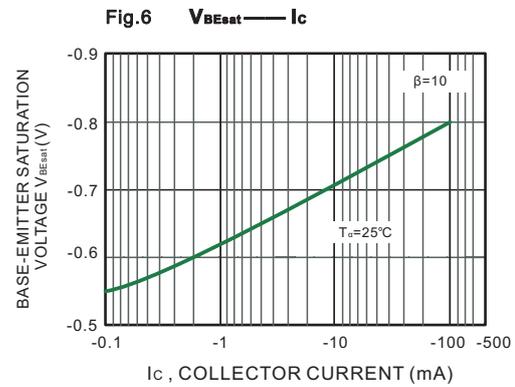
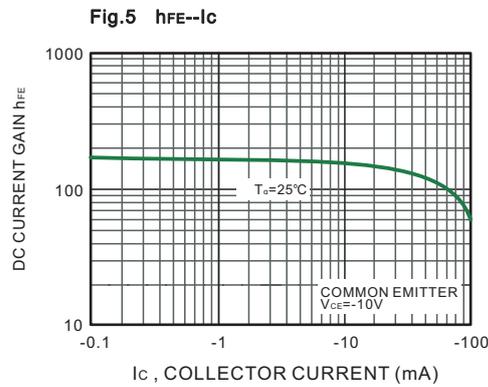
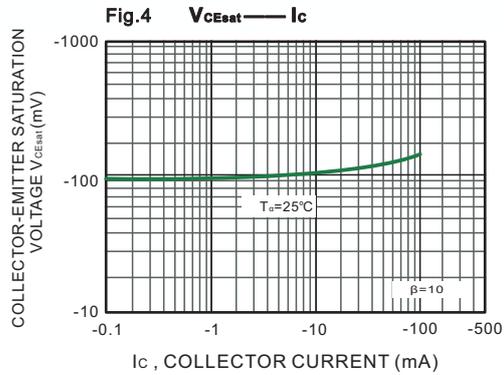
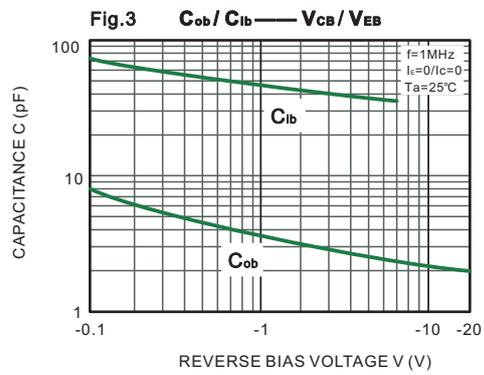
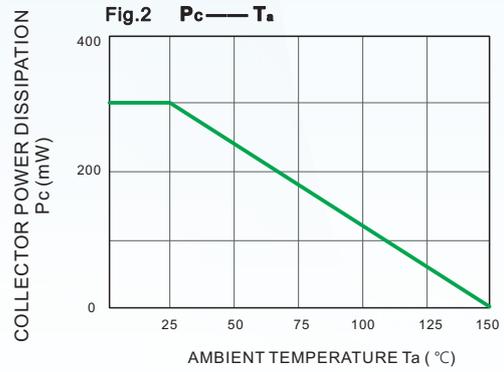
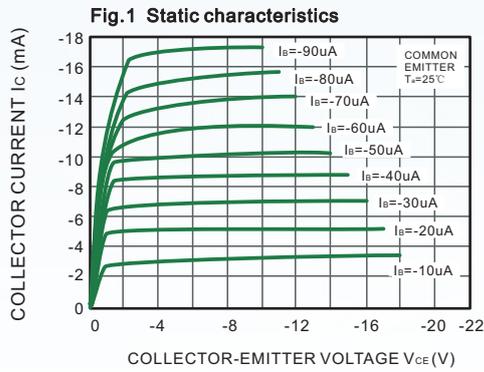
**MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector–Base Voltage	$V_{CB0}$	-300	V
Collector–Emitter Voltage	$V_{CEO}$	-300	V
Emitter–Base Voltage	$V_{EBO}$	-5	V
Collector Current — Continuous	$I_C$	-200	mA
Collector Current -Pulsed	$I_{CM}$	-500	mA
Collector Power Dissipation	$P_C$	300	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{stg}$	-55~+150	°C
Thermal Resistance, Junction to Ambient	$R_{thJA}$	410	°C/W

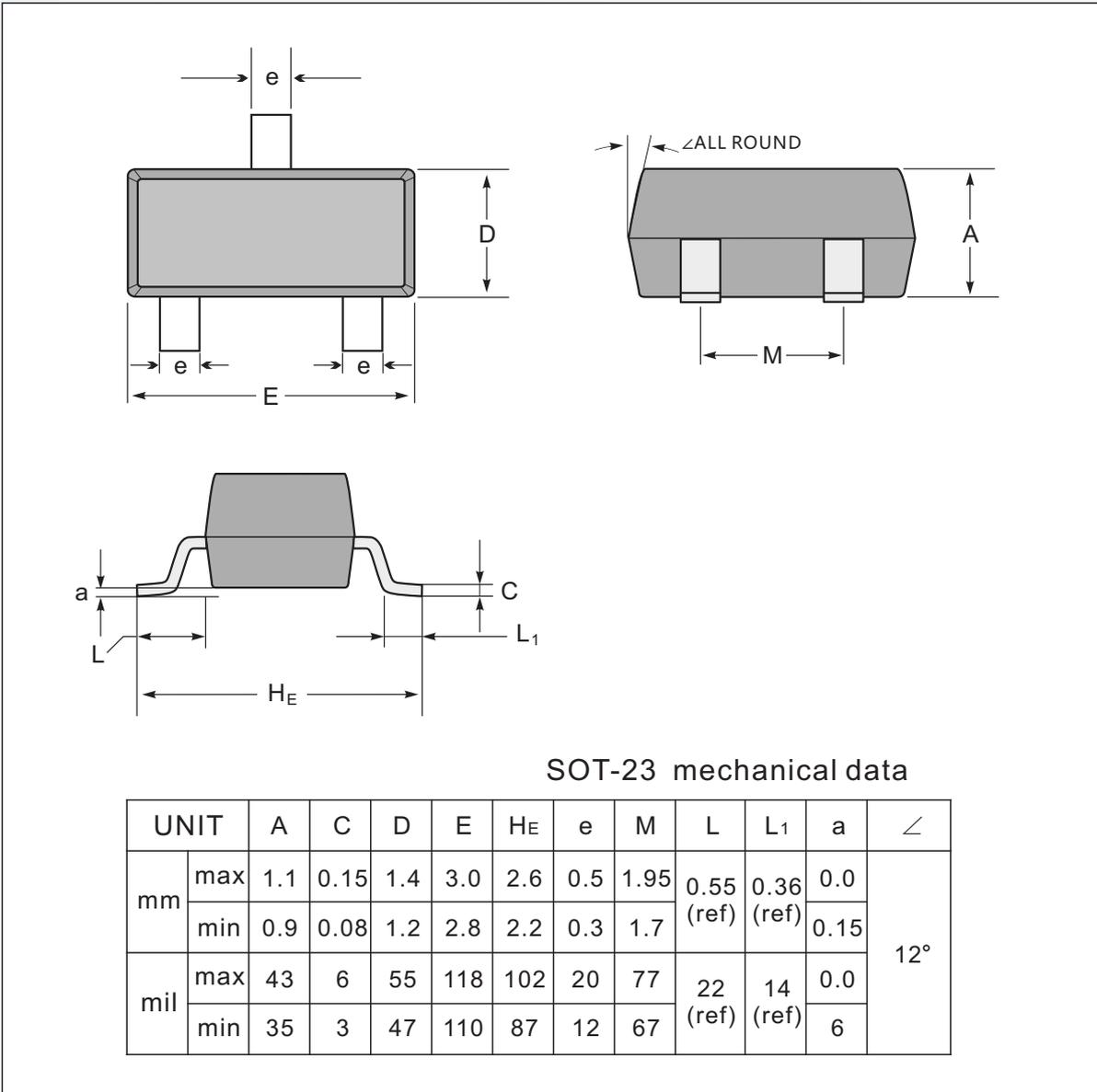
**ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)**

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C = -100\mu A, I_E = 0$	-300		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-300		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5		V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -200V, I_E = 0$		-0.25	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$		-0.1	$\mu A$
DC current gain	$h_{FE(1)}$	$V_{CE} = -10V, I_C = -1mA$	60		
	$h_{FE(2)}$	$V_{CE} = -10V, I_C = -10mA$	100	200	
	$h_{FE(3)}$	$V_{CE} = -10V, I_C = -30mA$	60		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -20mA, I_B = -2mA$		-0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -20mA, I_B = -2mA$		-0.9	V
Transition frequency	$f_T$	$V_{CE} = -20V, I_C = -10mA, f = 30MHz$	50		MHz

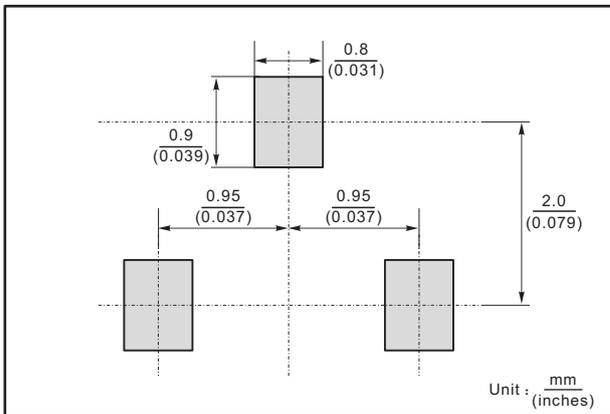
TYPICAL CHARACTERISTICS



### SOT-23 Package Outline Dimensions



#### The recommended mounting pad size

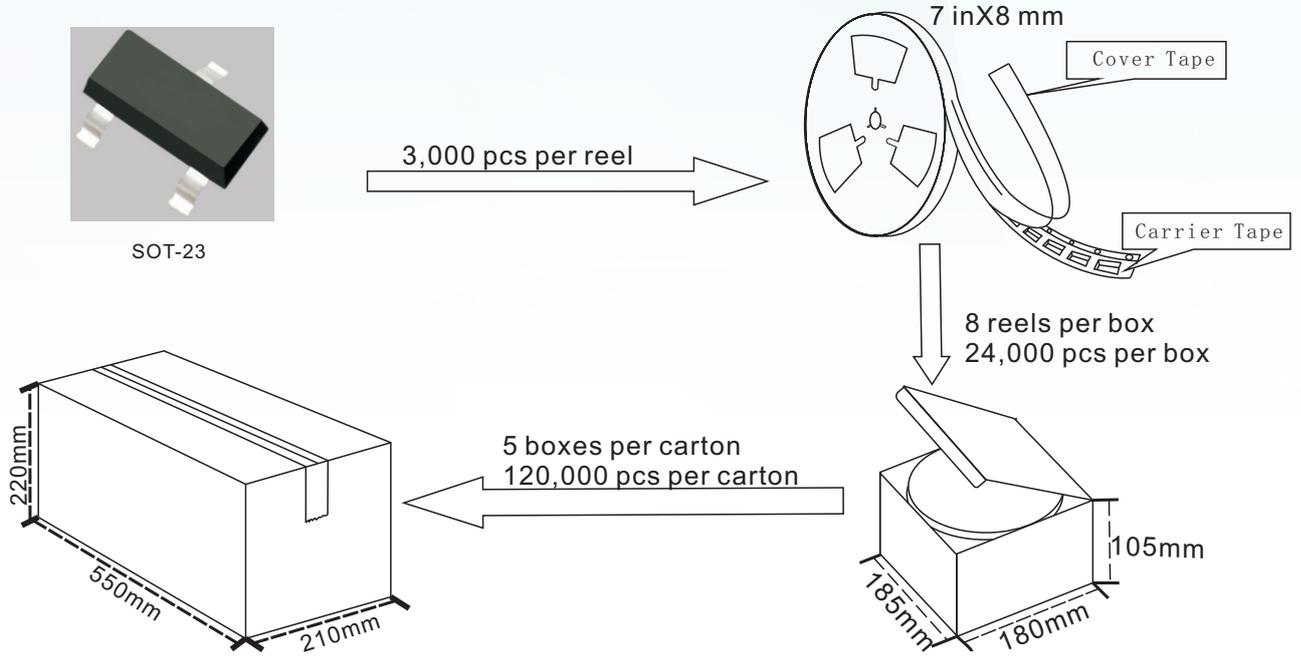


#### Marking

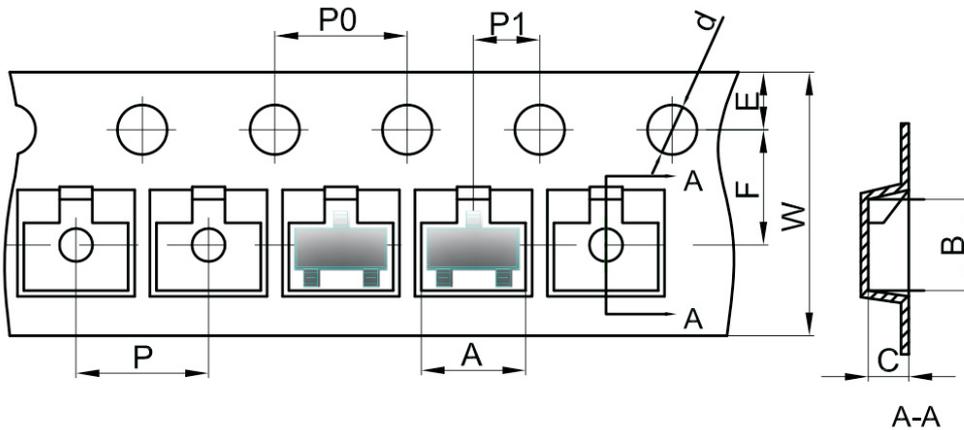
Type number	Marking code
MMBTA92	2D

## SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



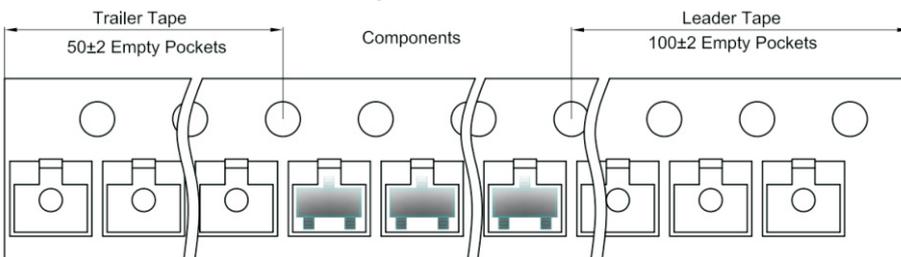
### SOT-23 Embossed Carrier Tape



Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer



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