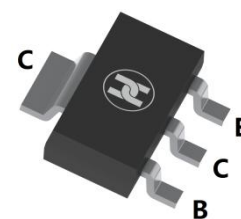
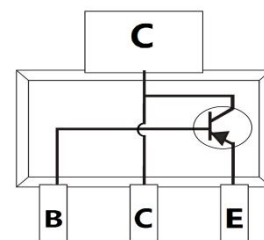


BIPOLAR TRANSISTOR (PNP)
FEATURES

- Complementary to PZT4401
- Linear Amplifier and Switch Application
- Low Voltage and High Current
- Surface Mount device

MECHANICAL DATA

- Case: SOT-223
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.04 grams (approximate)


SOT-223

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-600	mA
Collector Power Dissipation	P_C	1	W
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	125	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$

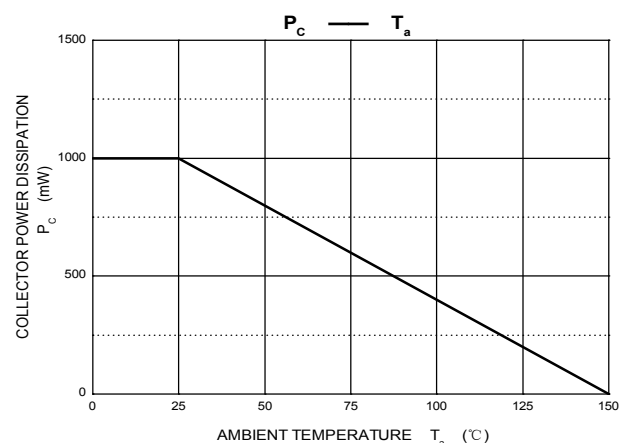
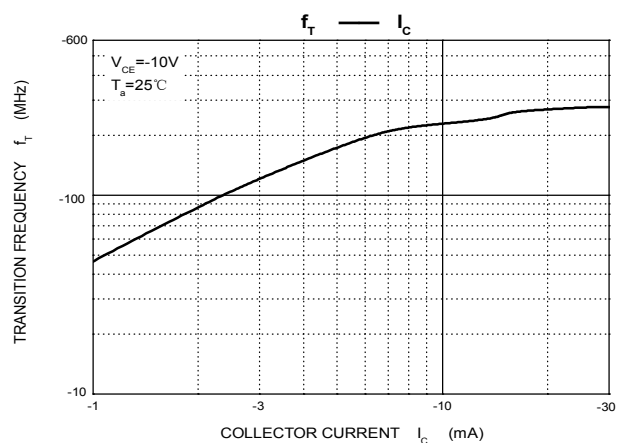
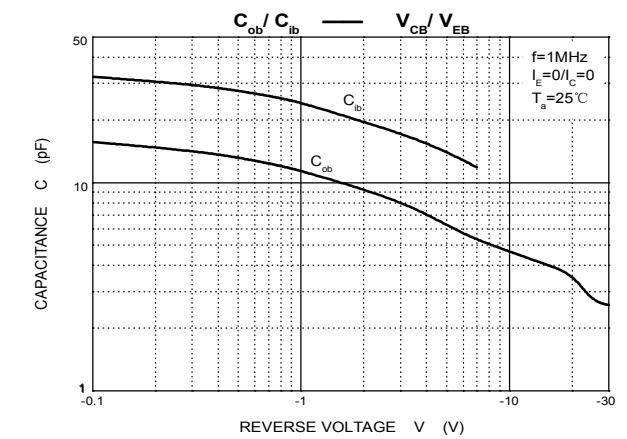
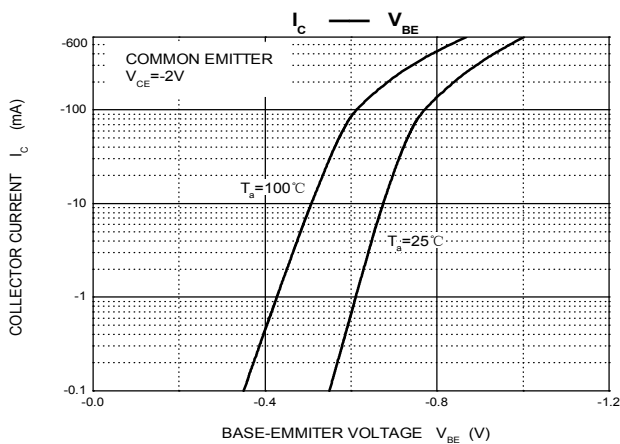
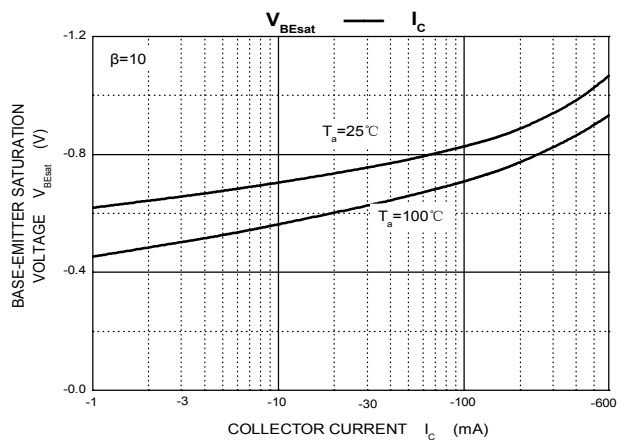
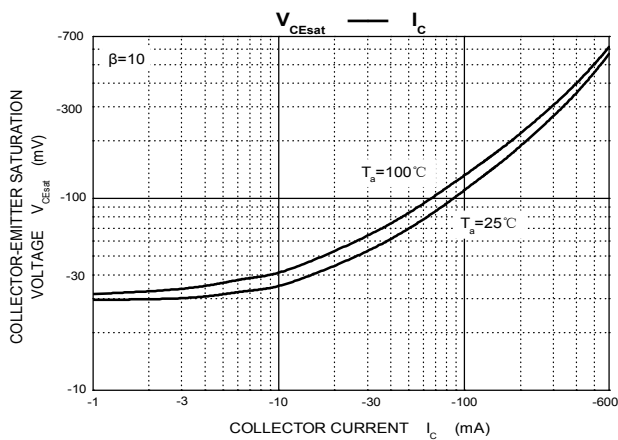
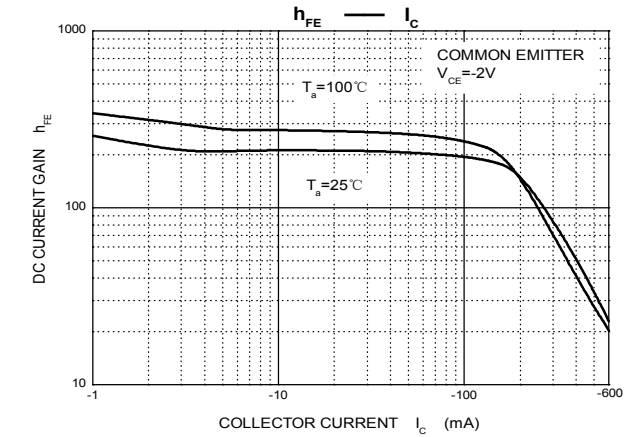
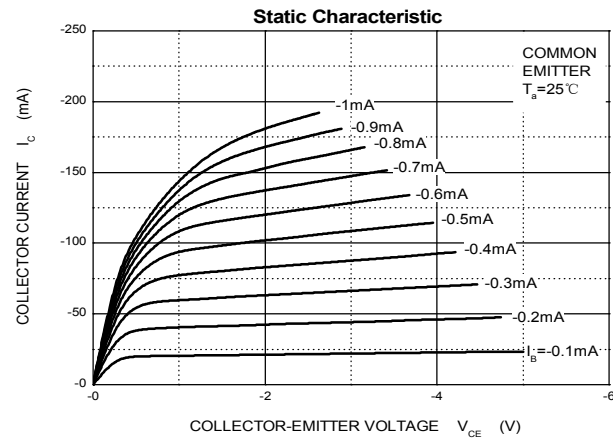
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

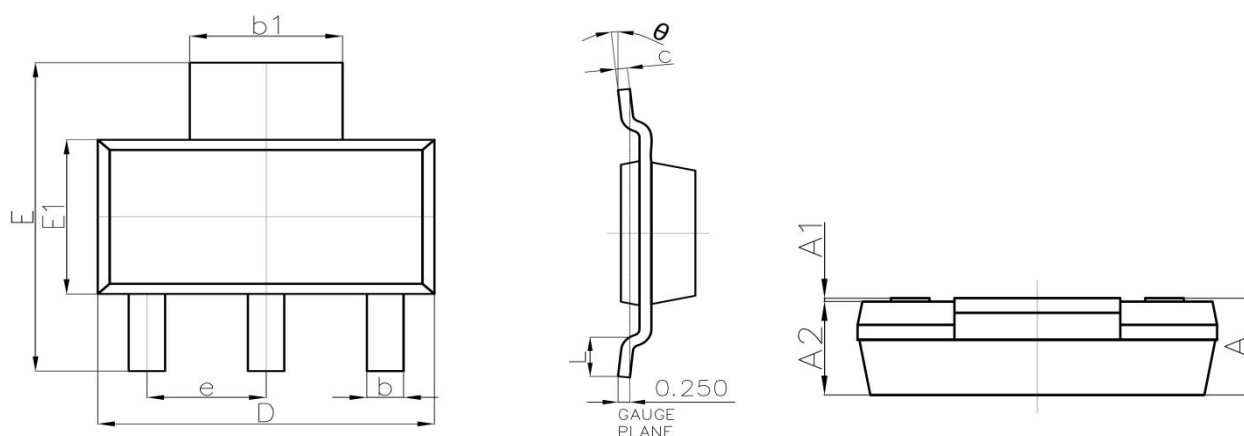
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Collector-base breakdown voltage	$V_{(BR)CBO}$	-40			V	$I_C = -100\mu\text{A}$, $I_E = 0$
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	-40			V	$I_C = -1\text{mA}$, $I_B = 0$
Emitter-base breakdown voltage	$V_{(BR)EBO}$	-6			V	$I_E = -100\mu\text{A}$, $I_C = 0$
Collector cut-off current	I_{CBO}			-50	nA	$V_{CB} = -40\text{V}$, $I_E = 0$
Emitter cut-off current	I_{EBO}			-50	nA	$V_{EB} = -5\text{V}$, $I_C = 0$
DC current gain	h_{FE}	30				$V_{CE} = -1\text{V}$, $I_C = -0.1\text{mA}$
		60				$V_{CE} = -1\text{V}$, $I_C = -1\text{mA}$
		100				$V_{CE} = -1\text{V}$, $I_C = -10\text{mA}$
		100	300			$V_{CE} = -2\text{V}$, $I_C = -150\text{mA}$
		20				$V_{CE} = -2\text{V}$, $I_C = -500\text{mA}$
Collector-emitter saturation voltage	$V_{CE(sat)}$			-0.4	V	$I_C = -150\text{mA}$, $I_B = -15\text{mA}$
				-0.75	V	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$
Base-emitter saturation voltage	$V_{BE(sat)}$			-0.95	V	$I_C = -150\text{mA}$, $I_B = -15\text{mA}$
				-1.3	V	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$
Transition frequency	f_T	200			MHz	$V_{CE} = -10\text{V}$, $I_C = -10\text{mA}$, $f = 100\text{MHz}$
Collector output capacitance	C_{ob}			8.5	pF	$V_{CE} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$
Emitter input capacitance	C_{ib}			35	pF	$V_{EB} = -0.5\text{V}$, $I_C = 0$, $f = 1\text{MHz}$

MARKING: ZT4403

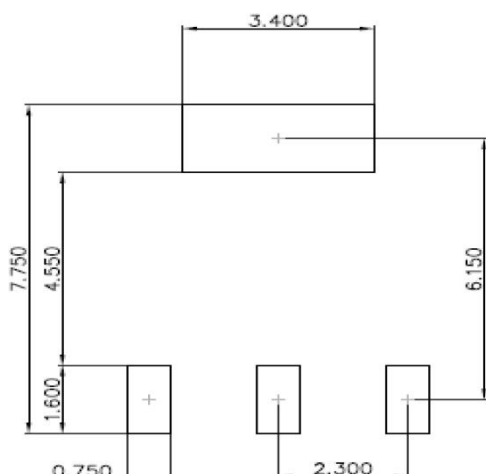
BIPOLAR TRANSISTOR (PNP)

Typical Characteristics



BIPOLAR TRANSISTOR (PNP)
SOT-223 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	—	1.800	-----	0.071
A1	0.020	0.100	0.001	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.840	0.026	0.033
b1	2.900	3.100	0.114	0.122
c	0.230	0.350	0.009	0.014
D	6.300	6.700	0.248	0.264
E	6.700	7.300	0.264	0.287
E1	3.300	3.700	0.130	0.146
e	2.300(BSC)		0.091(BSC)	
L	0.750	-----	0.030	-----
θ	0°	10°	0°	10°

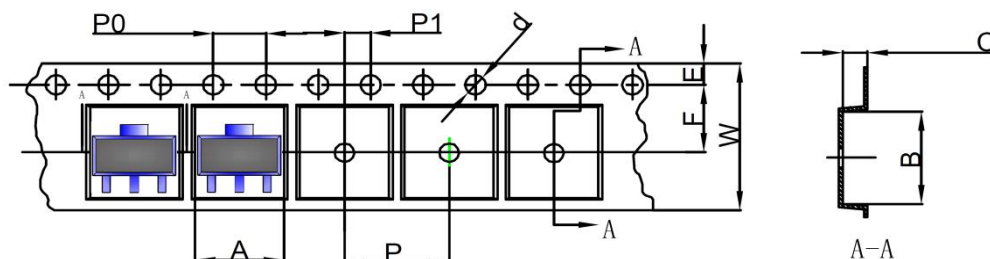
SOT-223 Suggested Pad Layout

Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

BIPOLAR TRANSISTOR (PNP)

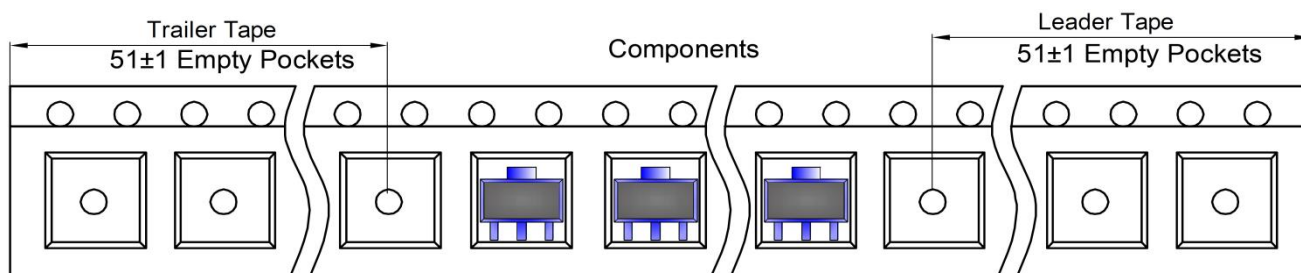
SOT-223 Tape and Reel

SOT-223 Embossed Carrier Tape

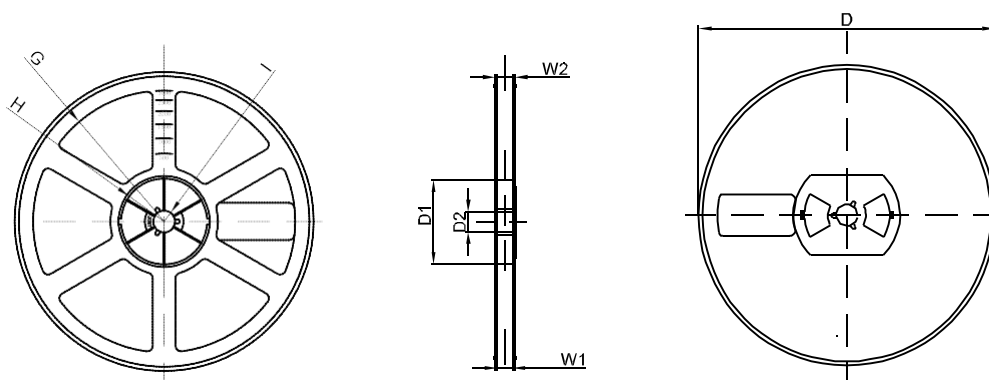


DIMENSIONS ARE IN MILLIMETER										
TYPE	A	B	C	d	E	F	P0	P	P1	W
SOT-223	6.765	7.335	1.88	Ø1.50	1.75	5.50	4.00	4.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SOT-223 Tape Leader and Trailer



SOT-223 Reel



DIMENSIONS ARE IN MILLIMETER								
REEL OPTION	D	D1	D2	G	H	I	W1	W2
13" DIA	Ø330.00	100.00	13.00	R151.00	R56.00	R6.50	12.40	17.60
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1