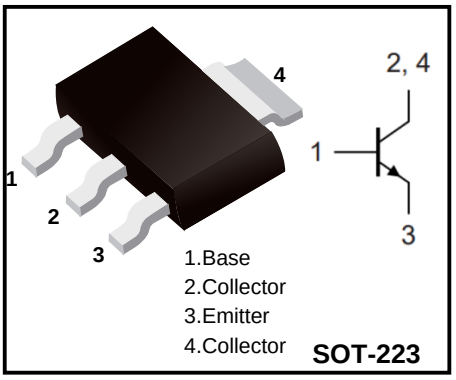
NPN Plastic-Encapsulate Transistors



FEATURES

- High breakdown Voltage
- High DC Current Gain
- Complement to PZTA94

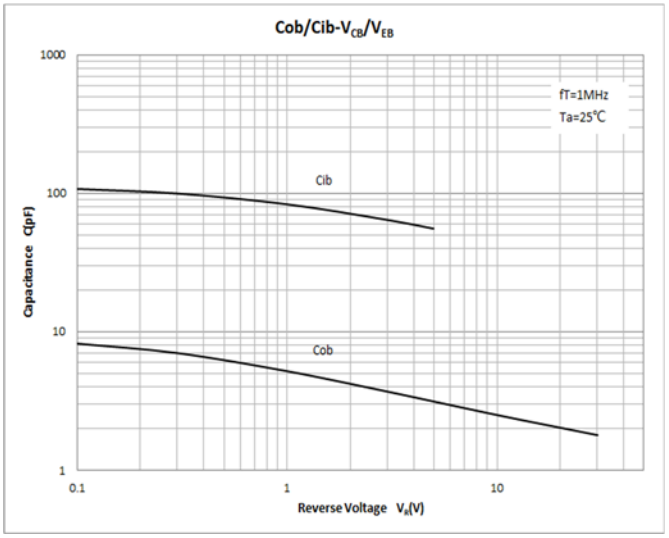
Marking Code	
PZTA44	YFW PZTA44

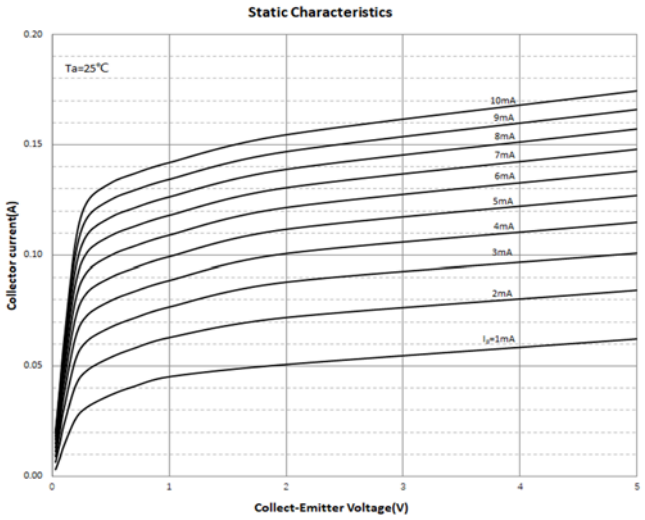
Absolute Maximum Rating (TC=25℃, unless otherwise noted)

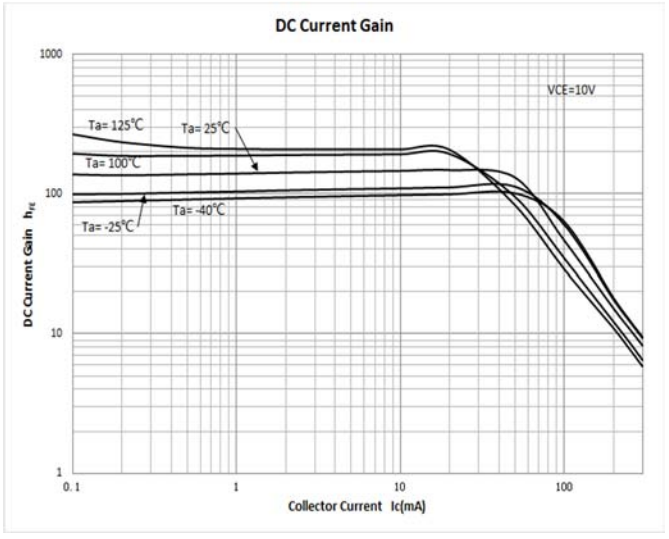
Parameter	Symbol	Value	Unit
Collector-base voltage	BV_{CBO}	400	V
Collector-emitter voltage	BV_{CEO}	400	V
Emitter-base voltage	BV_{EBO}	6	V
Collector current	I_C	300	mA
Collector power dissipation	P_C	625	mW
Junction temperature	T_j	150	℃
Storage temperature	T_{stg}	-55～150	℃

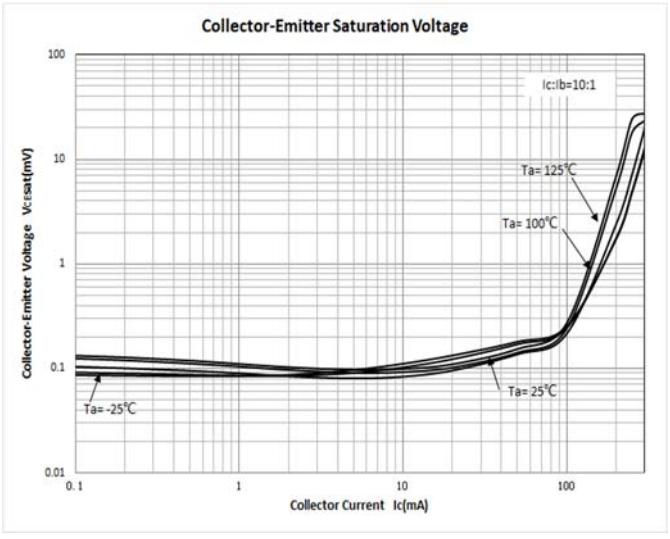
Electrical Characteristics (T_C=25℃, unless otherwise noted)

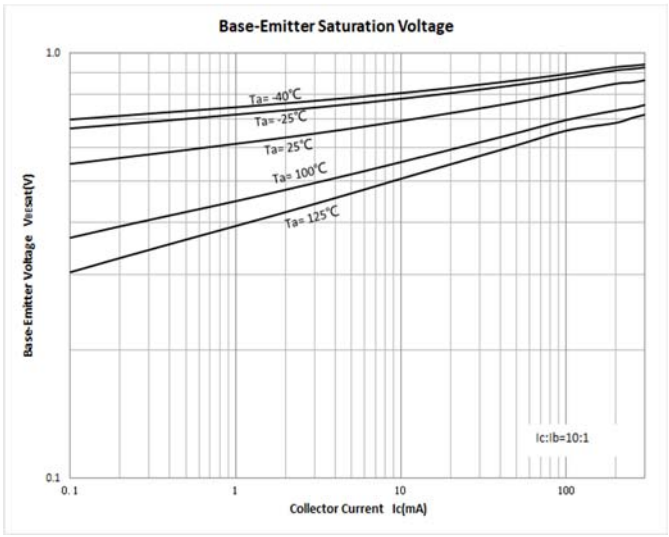
Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Collector-base breakdown voltage	I_C = 100μA , I_E = 0	BV_{CBO}	400			V
Collectoremitter breakdown voltage	I_C = 1mA , I_B = 0	BV_{CEO}	400			V
Emitter-base breakdown voltage	I_E = 100μA , I_C = 0	BV_{EBO}	6			V
Collector cut-off current	V_{CB} = 400V , I_B = 0	I_{CEO}			100	nA
Emitter cut-off current	V_{EB} = 4V , I_C = 0	I_{EBO}			100	nA
DC current gain	V_{CE} = 10V , I_C= 1mA V_{CE} = 10V , I_C= 10mA V_{CE} = 10V , I_C= 50mA V_{CE} = 10V , I_C= 100mA	h_{FE}	60 60 70 40		300	
Collector-emitter saturation voltage	I_C = 10mA , I_B = 1mA I_C = 50mA , I_B = 5mA	$V_{CE(sat)}$			0.2 0.5	V
Base-emitter saturation voltage	I_C = 10mA , I_B = 1mA	$V_{BE(sat)}$			0.75	V
Output capacitance	V_{CB} = 20V, I_E = 0,f=1MHz	C_{ob}			7	pF

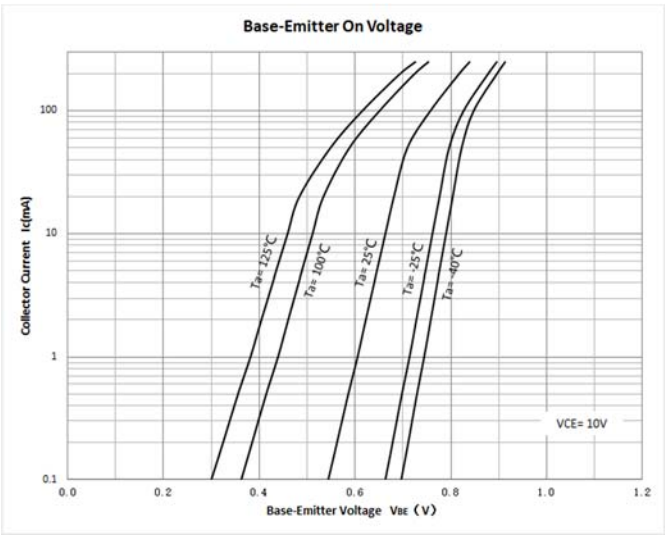

Cob/Cib-V_{CB}/V_{EB}
fT=1MHz
Ta=25℃
Cib
Cob
Capacitance C(pF)
Reverse Voltage V_R(V)


Static Characteristics
Ta=25℃
10mA
9mA
8mA
7mA
6mA
5mA
4mA
3mA
2mA
I_B=1mA
Collector current(A)
Collect-Emitter Voltage(V)


DC Current Gain
VCE=10V
Ta= 125℃
Ta= 25℃
Ta= 100℃
Ta= -40℃
Ta= -25℃
DC Current Gain h_{FE}
Collector Current Ic(mA)


Collector-Emitter Saturation Voltage
Ic:Ib=10:1
Ta= 125℃
Ta= 100℃
Ta= 25℃
Ta= -25℃
Collector-Emitter Voltage V_{CE}sat(mV)
Collector Current Ic(mA)


Base-Emitter Saturation Voltage
Ta= -40℃
Ta= -25℃
Ta= 25℃
Ta= 100℃
Ta= 125℃
Ic:Ib=10:1
Base-Emitter Voltage V_{BE}sat(V)
Collector Current Ic(mA)

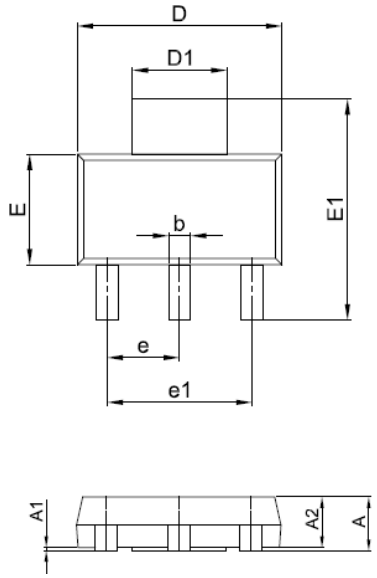

Base-Emitter On Voltage
Ta= 125℃
Ta= 100℃
Ta= 25℃
Ta= -25℃
Ta= -40℃
VCE= 10V
Collector Current Ic(mA)
Base-Emitter Voltage V_{BE}（V）

Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-223	Tape/Reel,7”reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton
	Tape/Reel,13”reel	2500pcs/Reel	5000PCS/Box 30000PCS/Carton

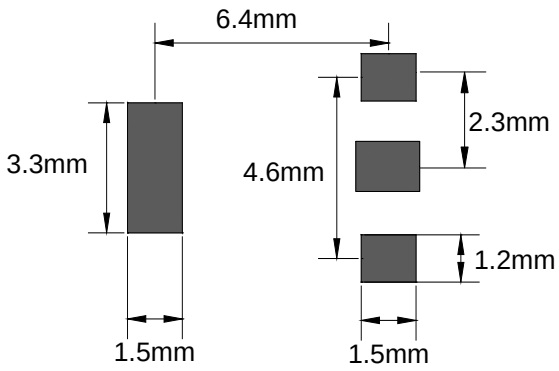
Package Dimensions

SOT-223



Dim	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	1.50	1.80	0.059	0.071
A1	0.00	0.10	0.000	0.004
A2	1.50	1.70	0.059	0.067
b	0.65	0.75	0.026	0.030
c	0.20	0.30	0.008	0.012
D	6.40	6.60	0.252	0.260
D1	2.90	3.10	0.114	0.122
E	3.30	3.70	0.130	0.146
E1	6.85	7.15	0.270	0.281
e	2.20	2.40	0.087	0.094
e1	4.40	4.80	0.173	0.189
L	1.65	1.85	0.065	0.073
L1	0.90	1.15	0.035	0.045

The recommended mounting pad size



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