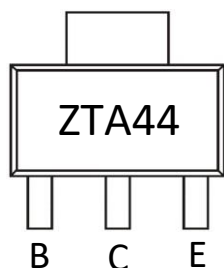
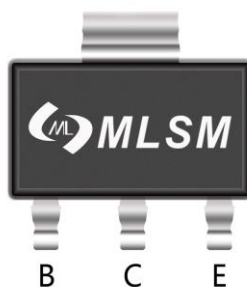


Features

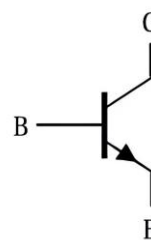
- Low current : 300mA(max)
- High voltage: $V_{CE0}=400V$



Marking and pin assignment



SOT-223 top view



Schematic diagram



Halogen-Free

Maximum Ratings(Ta=25°C unless otherwise noted)

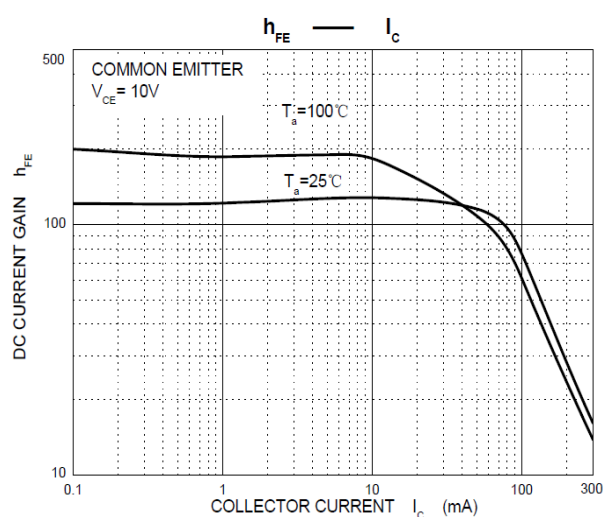
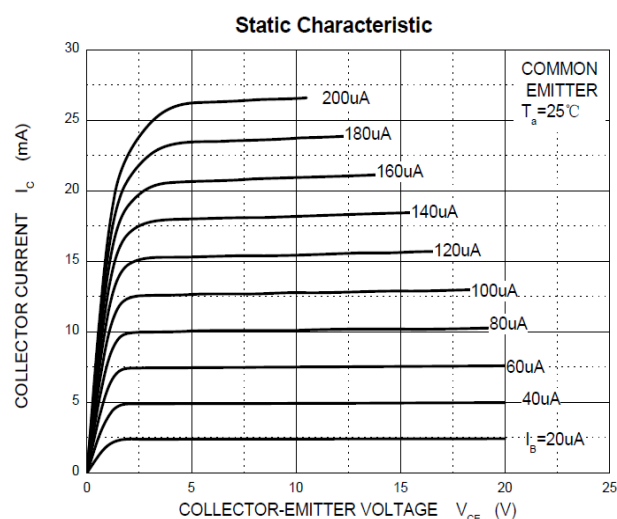
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	400	V
V_{CEO}	Collector-Emitter Voltage	400	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current -Continuous	200	mA
I_{CM}	Peak Pulse Collector Current	300	mA
P_C	Collector Power Dissipation	1	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

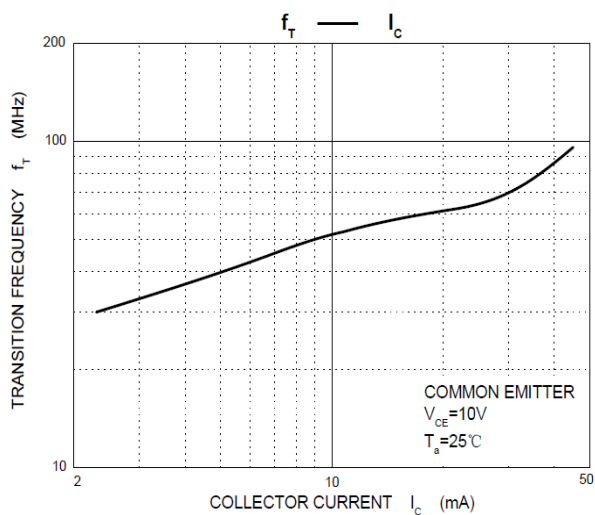
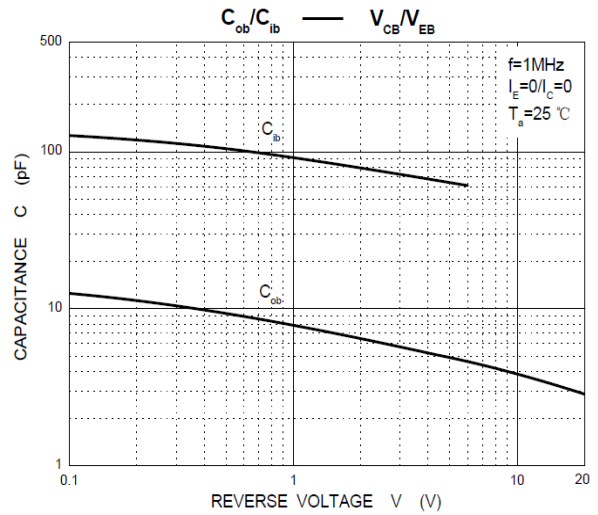
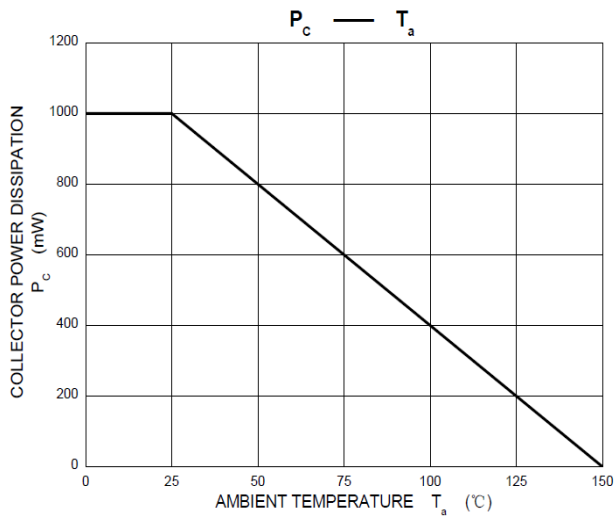
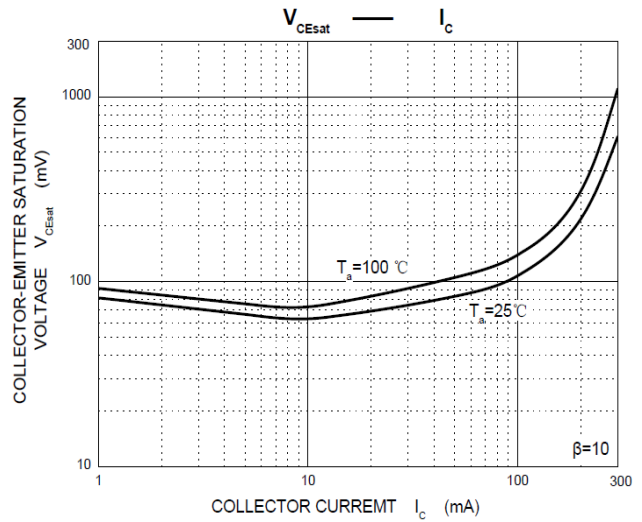
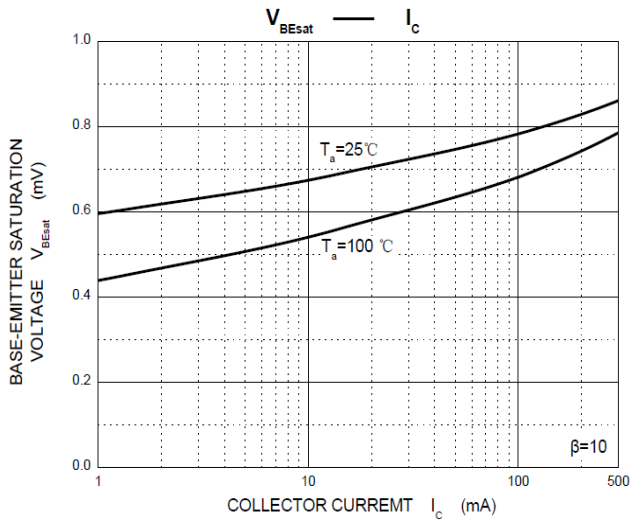
Ordering Information (Example)

Type	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PZTA44	ZTA44	2,500	5,000	35,000	13"reel

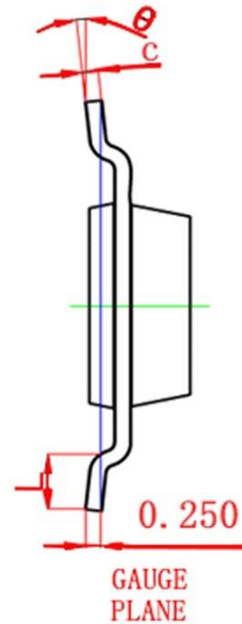
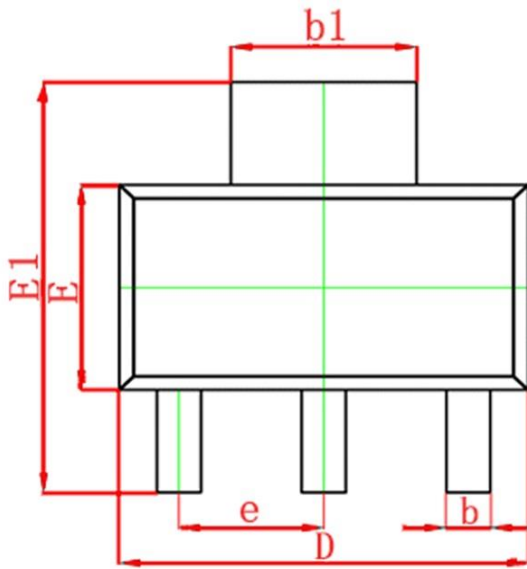
Electrical Characteristics (T_J=25°C unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA, I _E =0	400	--	--	V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	400	--	--	V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =100μA, I _C =0	6	--	--	V
I _{CBO}	Collector cut-off current	V _{CB} =400V, I _E =0	--	--	0.1	μA
I _{EBO}	Emitter cut-off current	V _{EB} =4V, I _C =0	--	--	0.1	μA
h _{FE1}	DC current gain	V _{CE} =10V, I _C =1mA	40	--	--	--
h _{FE2}		V _{CE} =10V, I _C =10mA	50	--	200	
h _{FE3}		V _{CE} =10V, I _C =50mA	45	--	--	
h _{FE4}		V _{CE} =10V, I _C =100mA	40	--	--	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =1mA, I _B =0.1mA	--	--	0.4	V
V _{CE(sat)}		I _C =10mA, I _B =1mA	--	--	0.5	V
V _{CE(sat)}		I _C =50mA, I _B =5mA	--	--	0.75	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =10mA, I _B =1mA	--	--	0.75	V
f _T	Transition frequency	V _{CE} =10V, I _C =10mA, f=100MHz	20	--	--	MHz
C _C	Collector capacitance	V _{CB} =20V, I _E =0, f=1MHz	--	--	7	pF
C _e	Emitter capacitance	V _{EB} =0.5V, I _C =0, f=1MHz	--	--	130	pF

Typical Characteristics




SOT-223 Package information



Symbol	Dimensions in Millimeters(mm)		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	3.300	3.700	0.130	0.146
E1	6.700	7.300	0.264	0.287
e	2.300(BSC)		0.091(BSC)	
L	0.750	--	0.030	--
θ	0°	10°	0°	10°