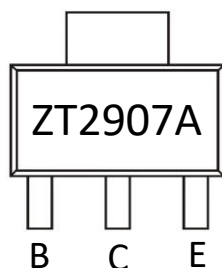
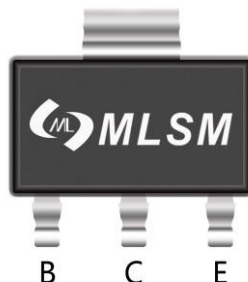


Features

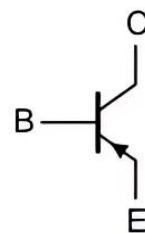
- Epitaxial planar die construction
- Complementary PNP Type available (PZT2907A)



Marking and pin assignment



SOT-223 top view



Schematic diagram



Pb-Free



Halogen-Free

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

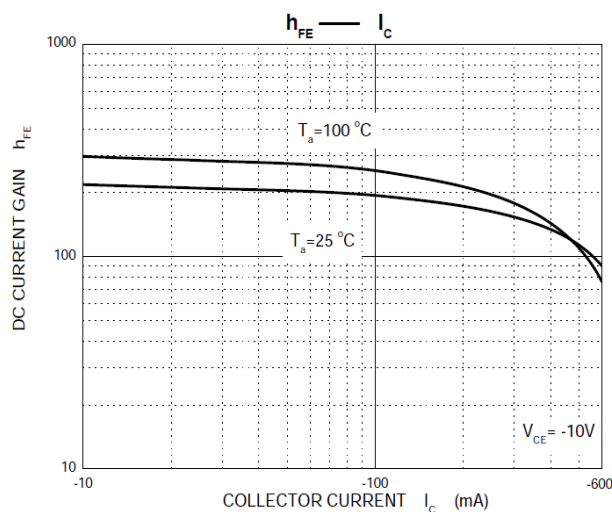
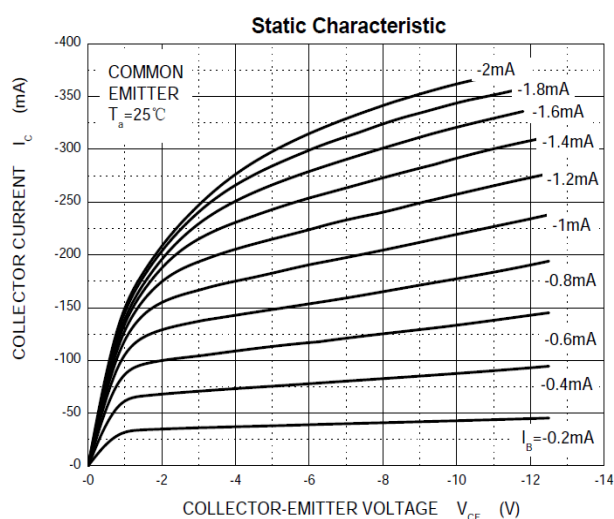
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-60	V
V_{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.6	A
P_C	Collector Power Dissipation	1	W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

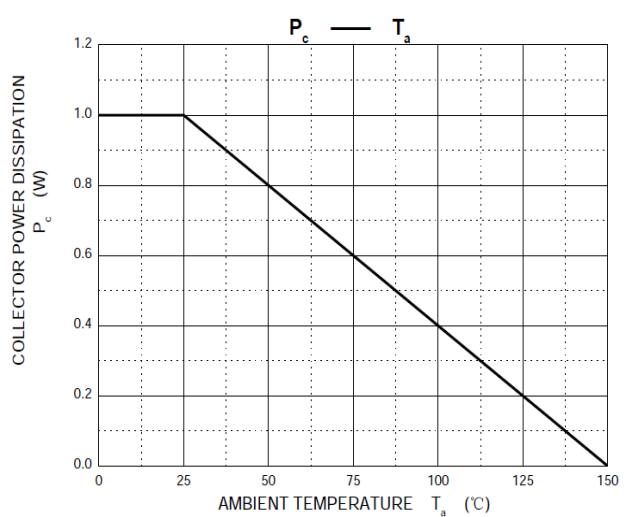
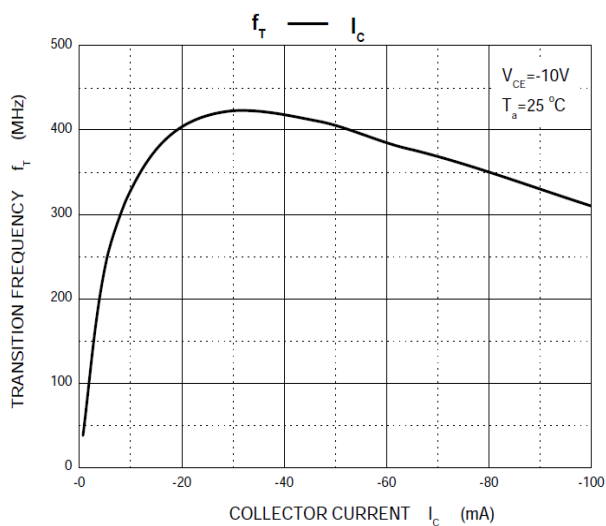
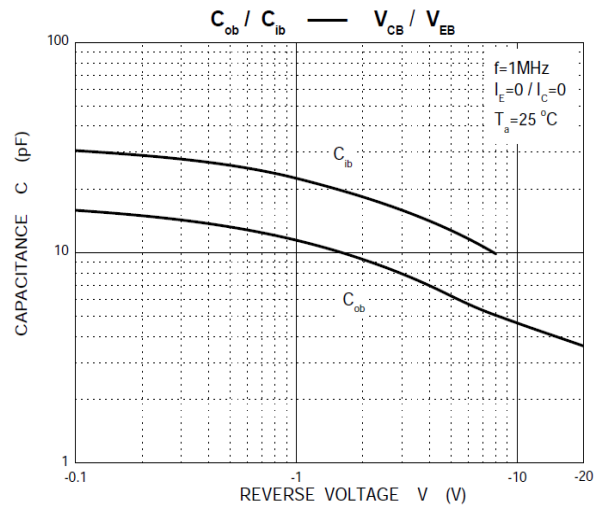
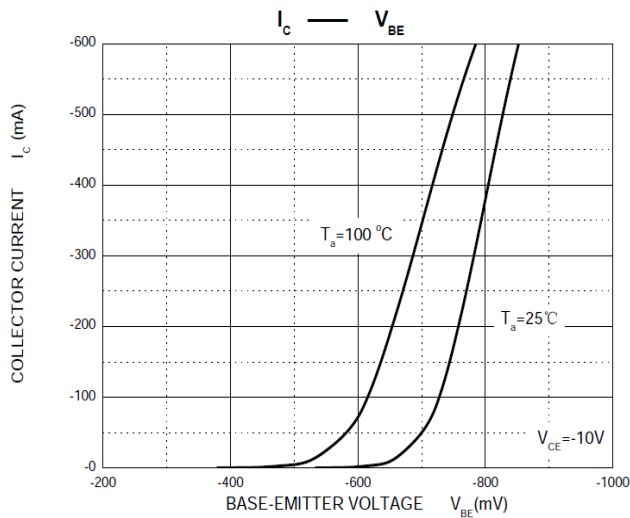
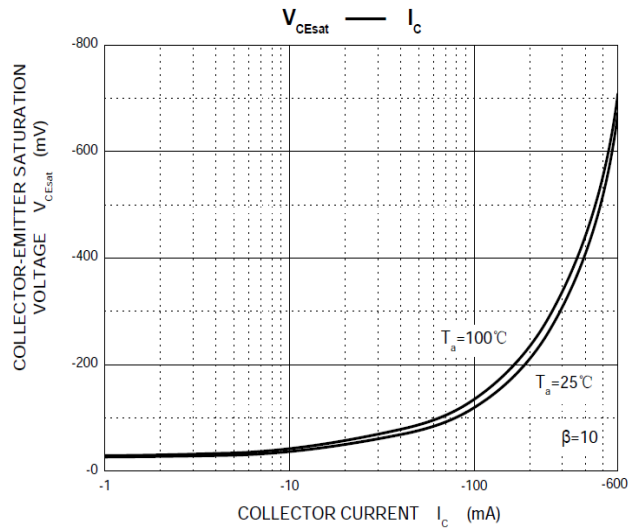
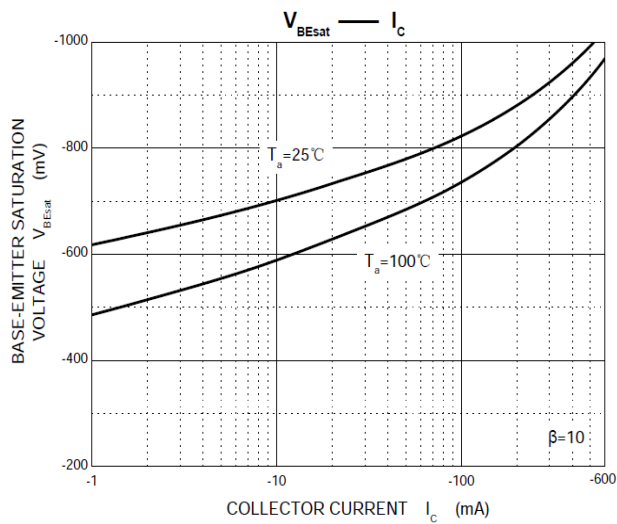
Ordering Information (Example)

Type	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
PZT2907A	ZT2907A	2,500	5,000	35,000	13"reel

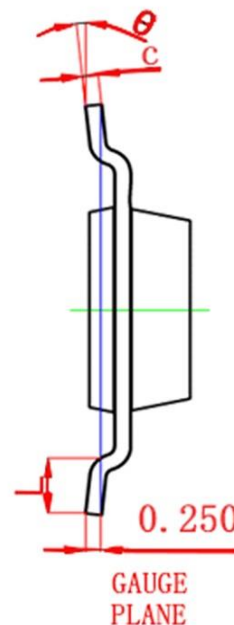
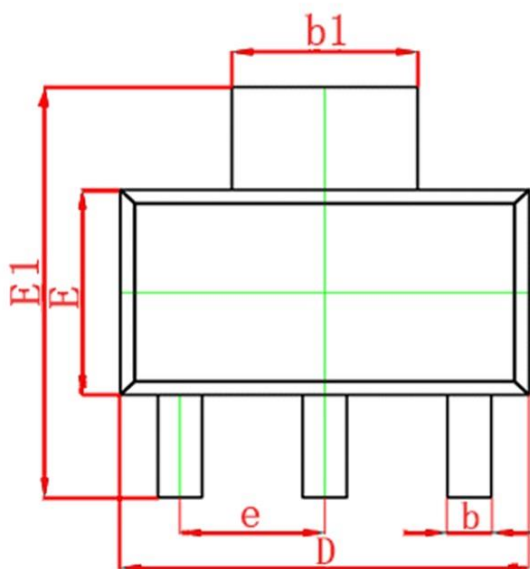
Electrical Characteristics (T_J=25°C unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-10μA, I _E =0	-60	--	--	V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-10mA, I _B =0	-60	--	--	V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-10μA, I _C =0	-5	--	--	V
I _{CBO}	Collector cut-off current	V _{CB} =-50V, I _E =0	--	--	-10	nA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V, I _C =0	--	--	-50	nA
h _{FE1}	DC current gain	V _{CE} =-10V, I _C = -0.1mA	75	--	--	--
h _{FE2}		V _{CE} =-10V, I _C = -1mA	100	--	--	
h _{FE3}		V _{CE} =-10V, I _C = -10mA	100	--	--	
h _{FE4}		V _{CE} =-10V, I _C = -150mA	100	--	300	
h _{FE5}		V _{CE} =-10V, I _C = -500mA	50	--	--	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-150mA, I _B = -15mA	--	--	-0.4	V
		I _C =-500mA, I _B = -50mA	--	--	-1.6	V
V _{BE(sat)}	Base-emitter saturation voltage	I _C =-150mA, I _B = -15mA	--	--	-1.3	V
		I _C =-500mA, I _B =-50mA	--	--	-2.6	V
C _c	Collector capacitance	V _{CB} =-10V, I _E =0, f=1MHz			8	pF
C _E	Emitter capacitance	V _{EB} =-2V, I _C =0, f=1MHz			30	pF
t _d	Delay time	I _C =-150mA I _{B1} =- I _{B2} =- 15mA	--	--	12	ns
t _r	Rise time		--	--	30	
t _s	Storage time		--	--	300	
t _f	Fall time		--	--	65	
f _T	Transition frequency	V _{CE} =-20V, I _C =-50mA, f=100MHz	200	--	--	MHz

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°