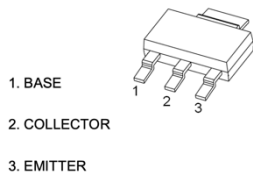


SOT-223



Marking: ZTA92

特征 Features

- High Voltage Driver Applications
- AEC-Q101 qualified

机械数据 Mechanical Data

- SOT-223 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

极限值和温度特性(TA = 25°C 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

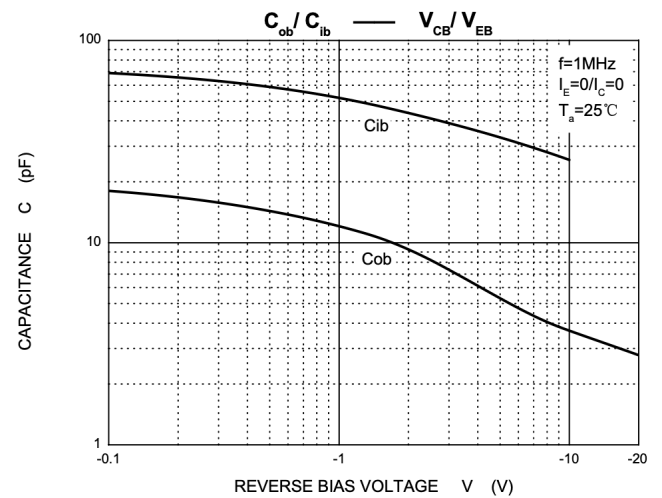
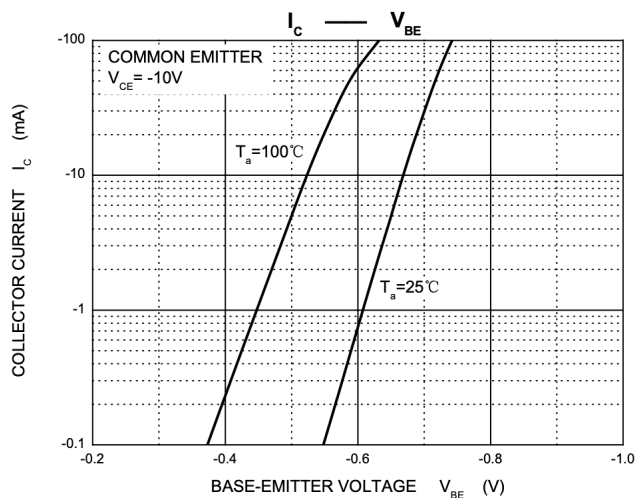
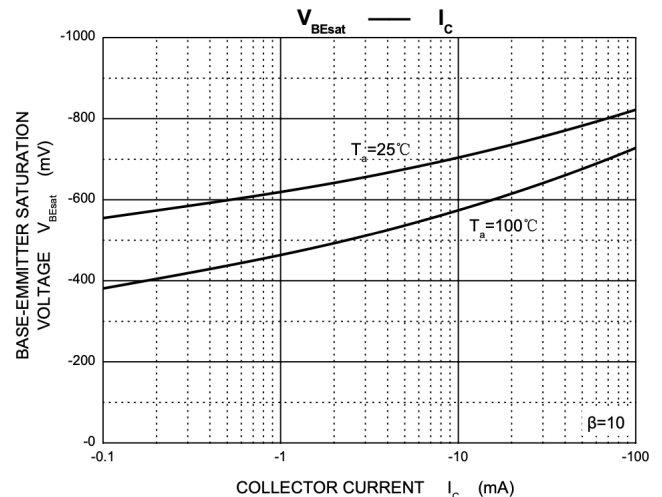
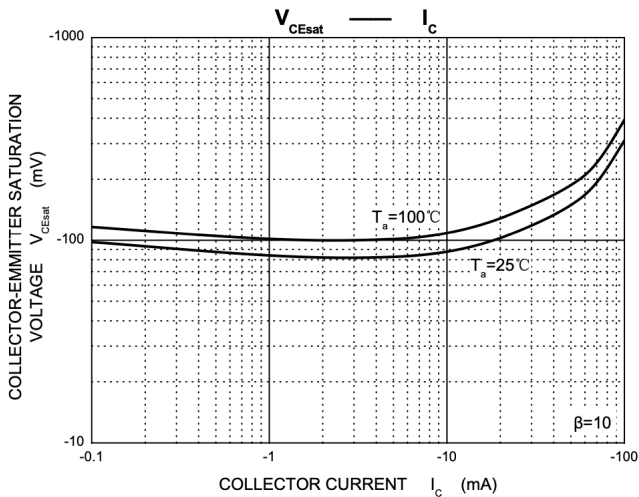
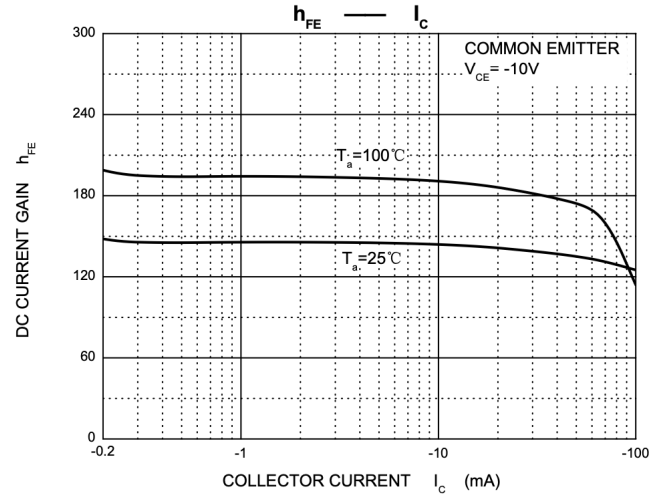
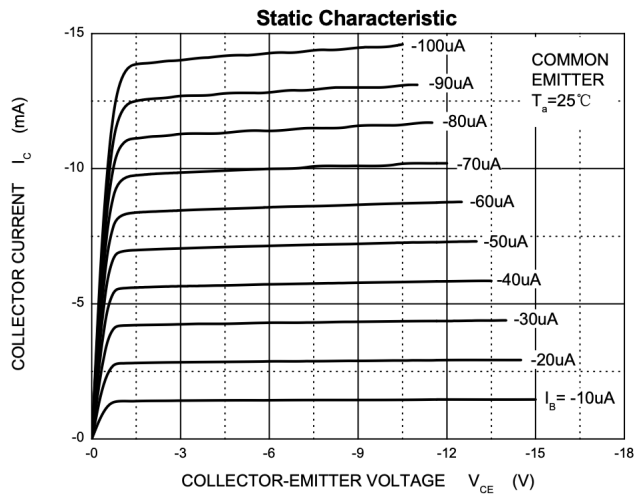
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
Collector-Base Voltage	V _{CBO}	-300	V
Collector-Emitter Voltage	V _{CEO}	-300	V
Emitter -Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-200	mA
Collector Current-Pulsed	I _{CM}	-500	mA
Collector Power Dissipation	P _C	1	W
Junction Temperature	T _j	-55-+150	°C
Storage Temperature	T _{stg}	-55-+150	°C
Thermal resistance From junction to ambient	R _{θJA}	125	°C/W

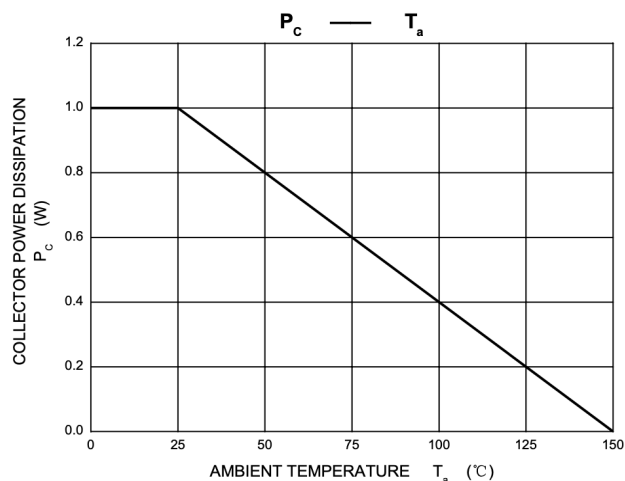
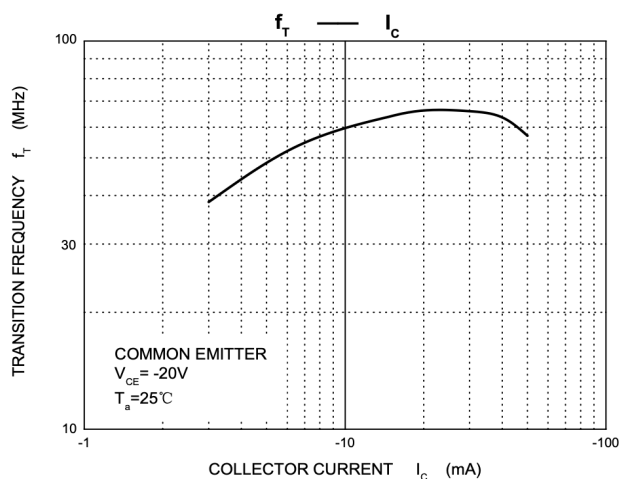
电特性 (TA = 25°C 除非另有规定)

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

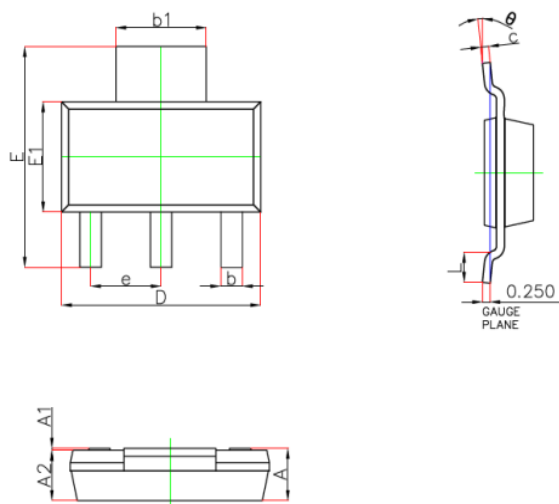
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100uA, I _E =0	-300		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-300		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100uA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-200V, I _E =0		-250	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V, I _C =0		-100	nA
DC current gain	h _{FE} (1)	V _{CE} =-10V, I _C =-1mA	25		
	h _{FE} (2)	V _{CE} =-10V, I _C =-10mA	40		
	h _{FE} (3)	V _{CE} =-10V, I _C =-30mA	25		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-20mA, I _B =-2mA		-0.5	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=100MHz	50		MHz
Collector output capacitance	C _{ob}	V _{CB} =-20V, I _E =0, f=1MHz		6	pF

Typical characteristics



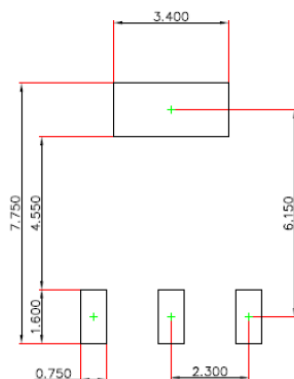


SOT-223 PACKAGE OUTLINE Plastic surface mounted package



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°

焊盘设计参考Precautions: PCB Design(Recommended land dimensions for SOT-223 transistor. Electrode patterns for PCBs)



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.050mm$.
3. The pad layout is for reference purposes only.

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