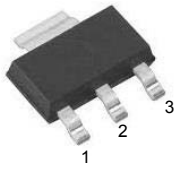
GOOD-ARK
SEMICONDUCTOR

PZT955
PNP Transistor

Features

- Low saturation voltage
- High continuous collector current



SOT-223

1. BASE
2. COLLECTOR
3. EMITTER

Applications

- Switching appliaction
- General-purpose amplifier

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Collector-Base Voltage	V_{CBO}	-180	V
Collector-Emitter Voltage	V_{CEO}	-140	V
Emitter-Base Voltage	V_{EBO}	-6	V
Collector Current	I_C	-4	A
Collector Power Dissipation	P_C	0.8	W
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	156	°C/W
Operating Junction Temperature Range	T_J	-55 To +150	°C
Storage Temperature Range	T_{STG}	-55 To +150	°C

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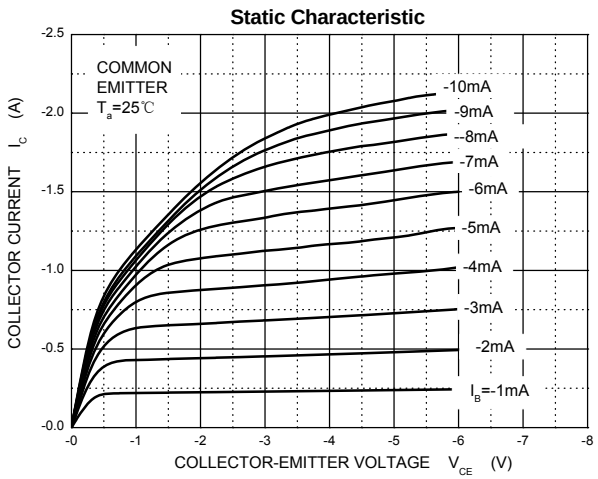
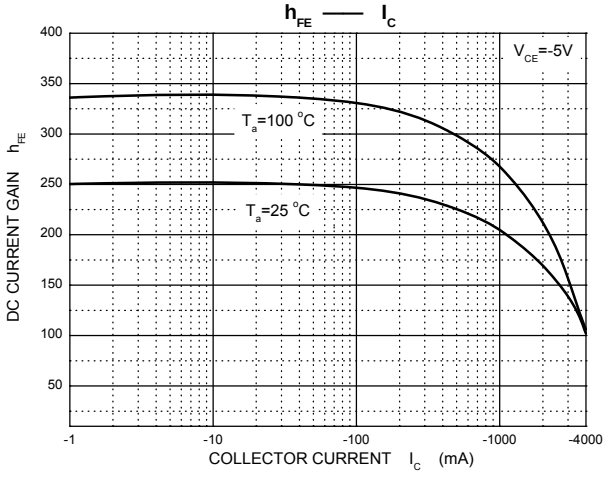
Electrical Characteristics (T_A=25°C unless otherwise noted)

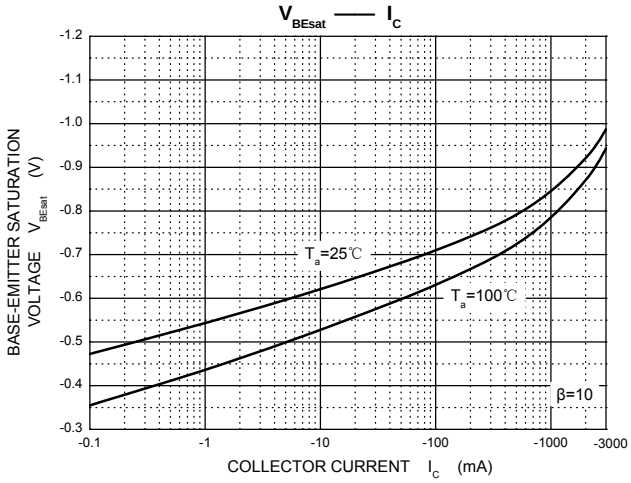
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=-0.1mA, I_E=0	-180	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-10mA, I_B=0	-140	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=-0.1mA, I_C=0	-6	-	-	V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-150V, I_E=0	-	-	-50	nA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-6V, I_C=0	-	-	-10	nA
DC Current Gain	$H_{FE(1)}$	V_{CE}=-5V, I_C=-10mA	100	-	-	-
	$H_{FE(2)}$	V_{CE}=-5V, I_C=-1A	100	-	300	-
	$H_{FE(3)}$	V_{CE}=-5V, I_C=-3A	75	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-100mA, I_B=-5mA	-	-	-60	mV
		I_C=-500mA, I_B=-50mA	-	-	-120	mV
		I_C=-1A, I_B=-100mA	-	-	-150	mV
		I_C=-3A, I_B=-300mA	-	-	-370	mV
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-3A, I_B=-300mA	-	-	-1.11	V
Base-Emitter Voltage	V_{BE}	V_{CE}=-5V, I_C=-3A	-	-	-0.95	V
Transition Frequency	f_T	V_{CE}=-10V,I_C=-100mA, f=50MHz	-	70	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-20V, I_E=0, f=1MHz	-	40	-	pF
Switching Times	t_{on}	V_{CC}=-50V, I_C=-1A, I_{B1}= I_{B2}=-100mA	-	68	-	nS
	t_{off}		-	1030	-	nS

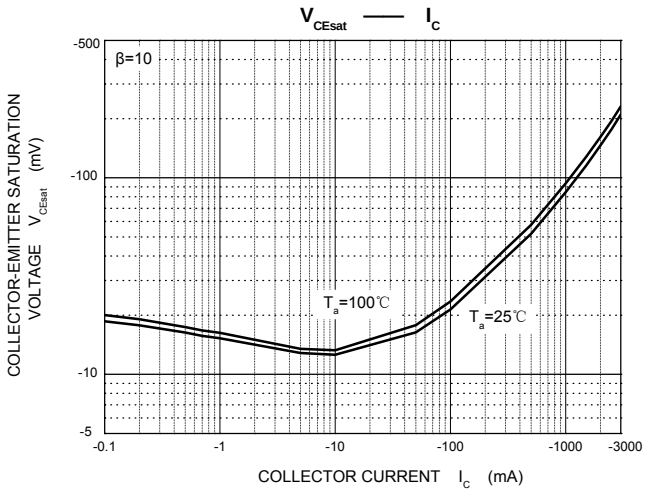
Typical Electrical Characteristic Curves

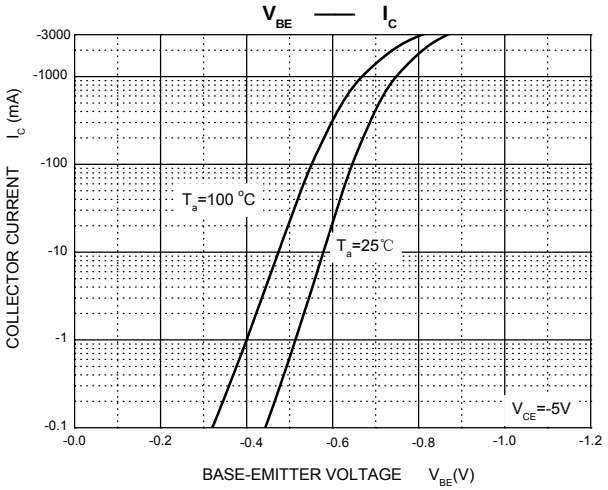


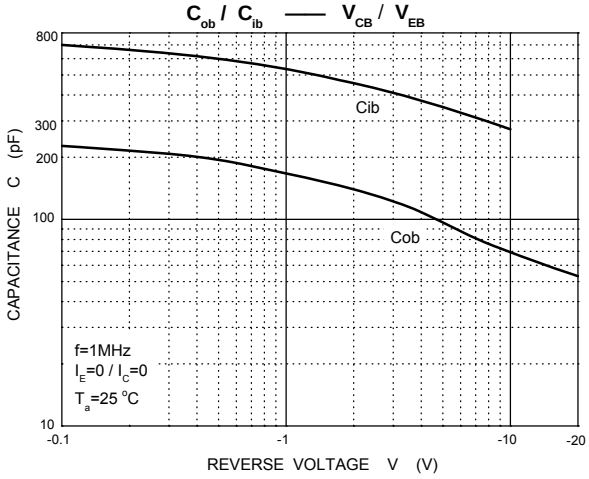


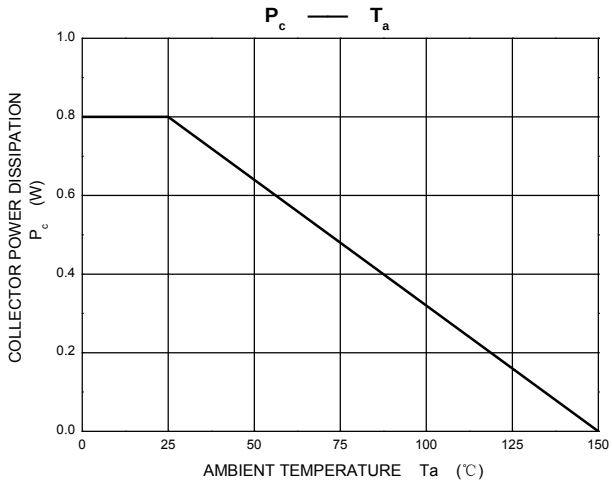
Typical Electrical Characteristic Curves



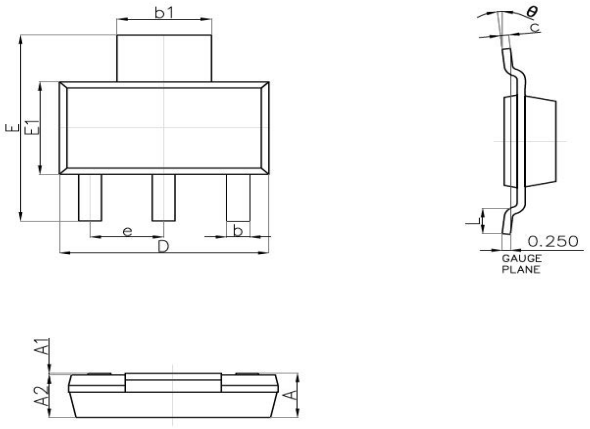






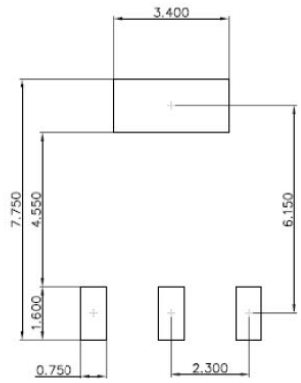


Package Outline Dimensions (SOT-223)



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°

Recommended Pad Layout



unit(mm)

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

Marking and Ordering Information

Device	Package	Marking	Quantity	HSF Status
PZT955	SOT-223	ZT955	2500pcs / Reel	RoHS