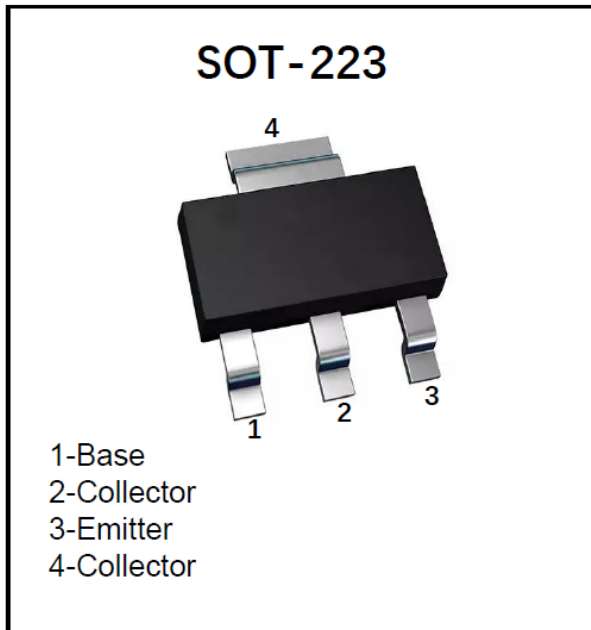


## PNP Medium Power Transistor



### Features

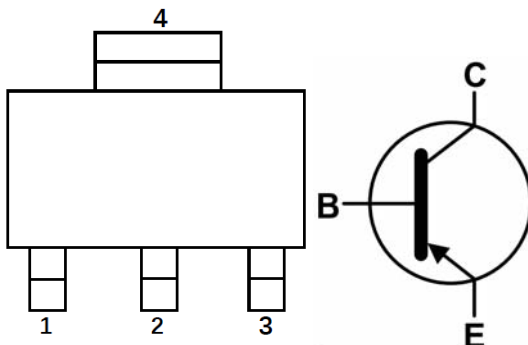
- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Low collector-emitter saturation voltage

### Mechanical Data

- **Package:** SOT-223
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

Product	Marking
FZT955	ZT955

### ■Equivalent circuit



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

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	$V_{CEO}$	V	$I_C = -10\text{mA}$ , $I_B = 0$	-140
Minimum Collector-Base Voltage	$V_{CBO}$	V	$I_C = -100\mu\text{A}$ , $I_E = 0$	-180
Minimum Emitter-Base Voltage	$V_{EBO}$	V	$I_E = -100\mu\text{A}$ , $I_C = 0$	-6
Collector Current	$I_C$	A		-4
Power Dissipation (Note 1)	$P_D$	W		0.8
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	°C/W		156
Operation Junction Temperature	$T_j$	°C		-55 to +150
Storage Temperature	$T_{stg}$	°C		-55 to +150

Note 1: Device mounted on an FR4 PCB, mounting pad for collector 1 cm<sup>2</sup>



# FZT955

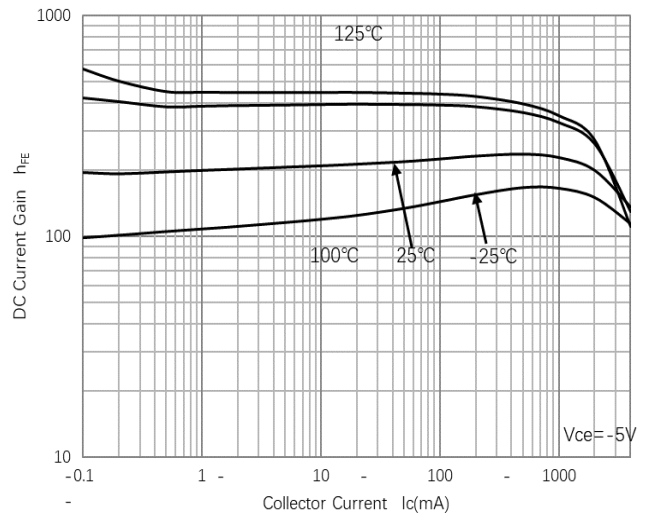
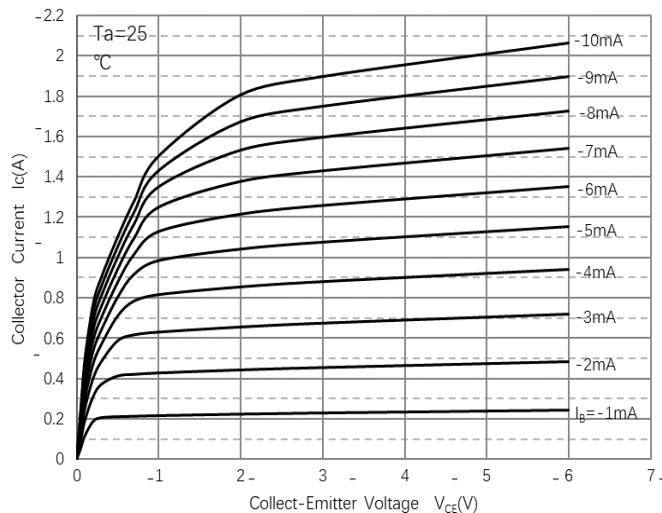
## ■Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	$V_{CE0}$	V	$I_C=-10mA, I_B=0$	-140	-	-
Collector-Base Voltage	$V_{CBO}$	V	$I_C=-100\mu A, I_E=0$	-180	-	-
Emitter-Base Voltage	$V_{EBO}$	V	$I_E=-100\mu A, I_C=0$	-6	-	-
Collector-Base cut-off Current	$I_{CBO}$	nA	$V_{CB}=-150V$	-	-	-50
Emitter cut-off Current	$I_{EBO}$	nA	$V_{CB}=-6V$	-	-	-10
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	$V_{CE(sat)}$	mV	$I_C=-100mA, I_B=-5mA$	-	-	-60
	$V_{CE(sat)}$	mV	$I_C=-500mA, I_B=-50mA$	-	-	-120
	$V_{CE(sat)}$	mV	$I_C=-1A, I_B=-100mA$	-	-	-150
	$V_{CE(sat)}$	mV	$I_C=-3A, I_B=-300mA$	-	-	-370
Base-Emitter Voltage	$V_{BE}$	V	$V_{CE}=-5V, I_C=-3A$	-	-	-0.95
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_B=-300mA, I_C=-3A$	-	-	-1.11
Transition Frequency	$f_T$	MHz	$I_C=-10mA, V_{CE}=-10V, f=100MHz$	30	-	-
Collector Output Capacitance	$C_{ob}$	pF	$I_C=10mA, V_{CE}=-20V, f=30MHz$	-	40	-

## ■Ordering Information (Example)

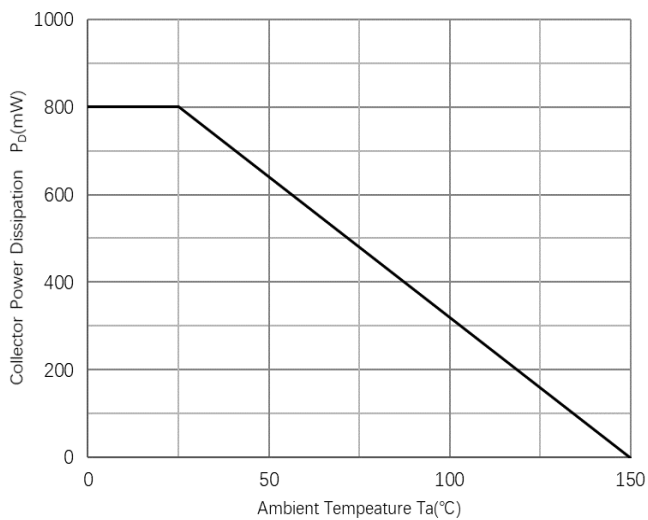
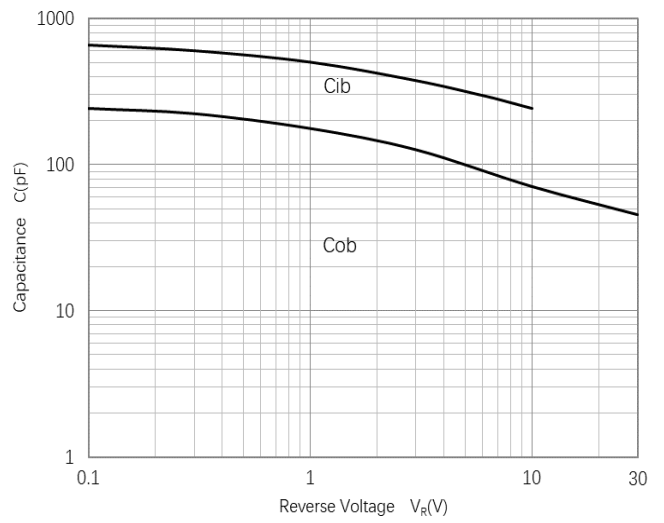
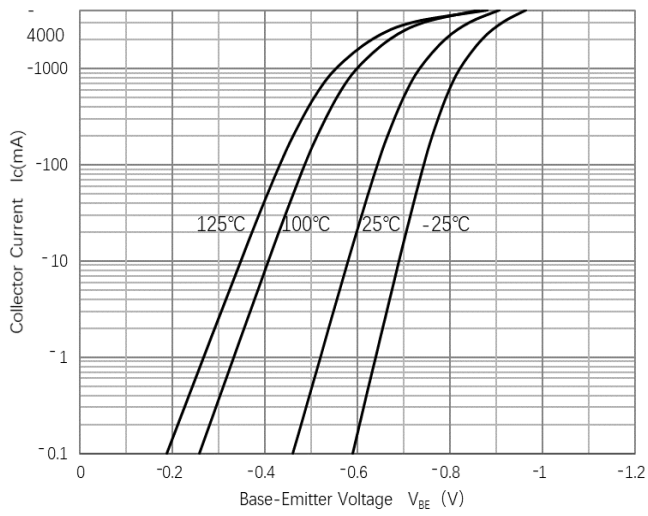
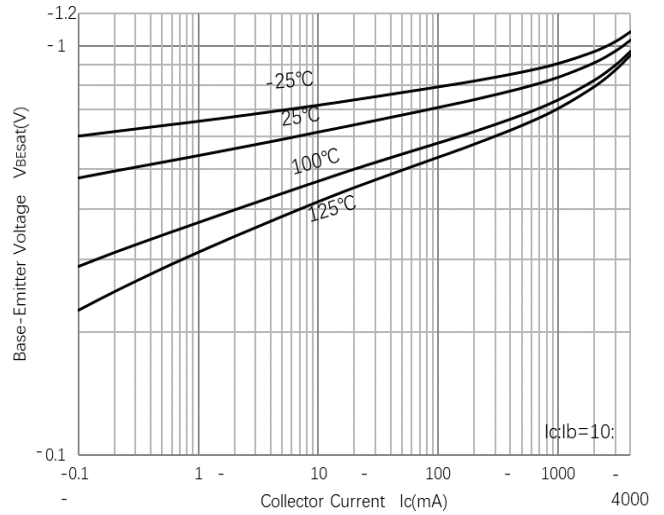
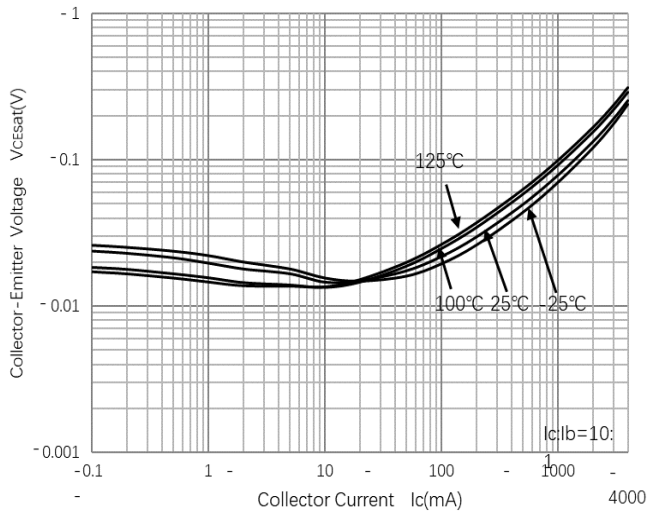
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
FZT955	F2	Approximate 0.11	2500	5000	25000	13" reel

## ■Characteristics (Typical)





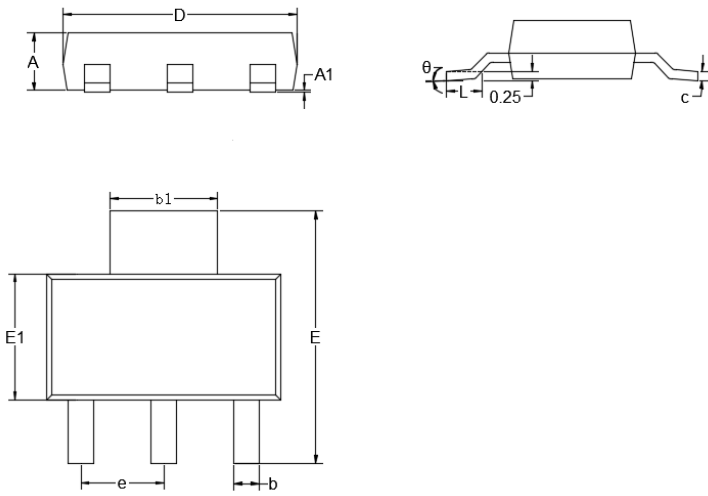
# FZT955





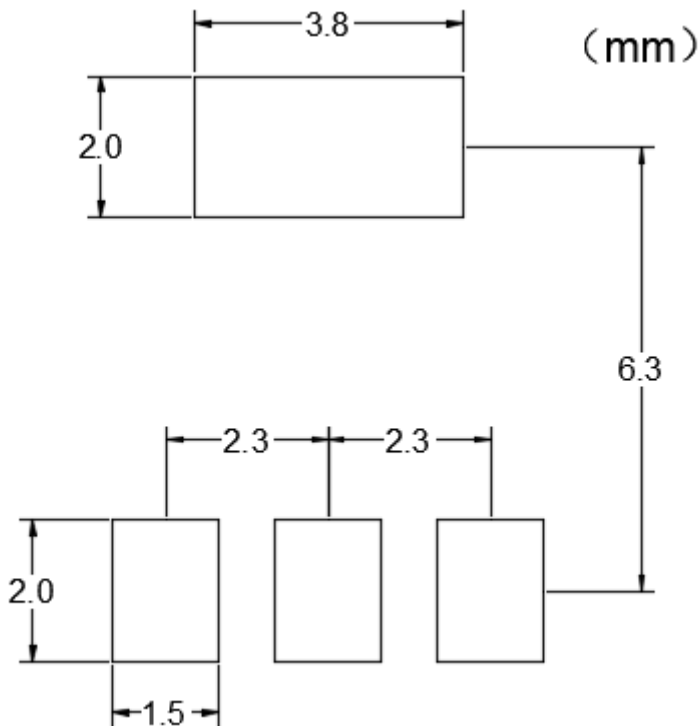
# FZT955

## ■SOT-223 Package Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MM	MAX
A	0.0591	0.0670	1.5000	1.7000
A1	0.0008	0.0039	0.0200	0.1000
b	0.0259	0.0330	0.6600	0.8400
b1	0.1140	0.1220	2.9000	3.1000
c	0.0090	0.0138	0.2300	0.3500
D	0.2480	0.2640	6.3000	6.7000
E	0.2637	0.2874	6.7000	7.3000
E1	0.1290	0.1460	3.3000	3.7000
e	0.0866	0.0945	2.2000	2.4000
L	0.0295	0.0492	0.7500	1.2500
$\theta$	0°	10°	0°	10°

## ■SOT-223 Suggested Pad Layout





## FZT955

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