# PNP Transistors
FZT955 (KZT955)

■ **Features**

● Collector Current Capability I_C=-4A

● Collector Emitter Voltage V_{CEO}=-140V

● Very low saturation voltages

● Complementary to FZT855

SOT-223   Unit:mm

1.Base
2.Collector
3.Emitter
4.Collector

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-180	V
Collector - Emitter Voltage	V_{CEO}	-140	
Emitter - Base Voltage	V_{EBO}	-6	
Collector Current - Continuous	I_C	-4	A
Peak Pulse Current	I_{CM}	-10	
Collector Power Dissipation	P_C	3	W
Junction Temperature	T_J	150	℃
Storage Temperature range	T_{stg}	-55 to 150	
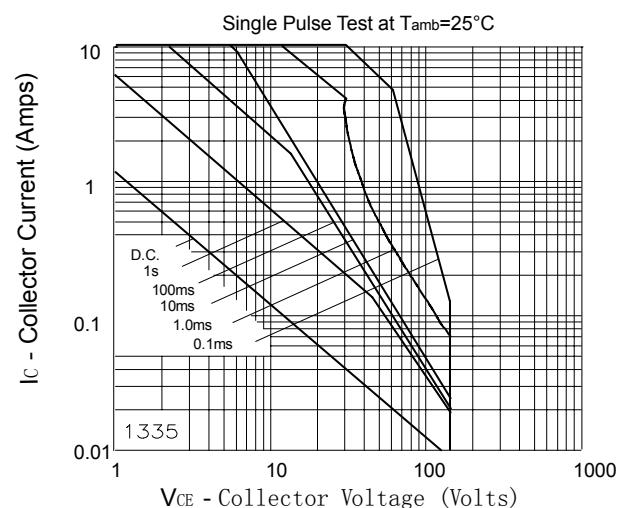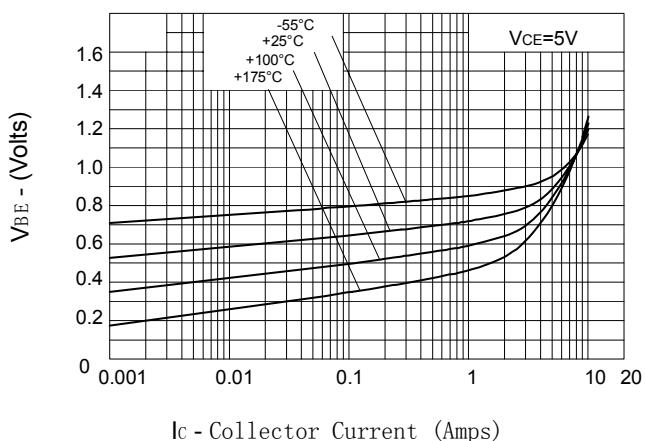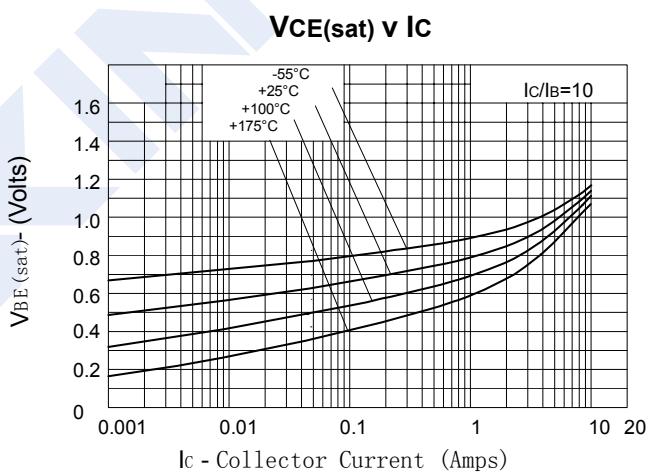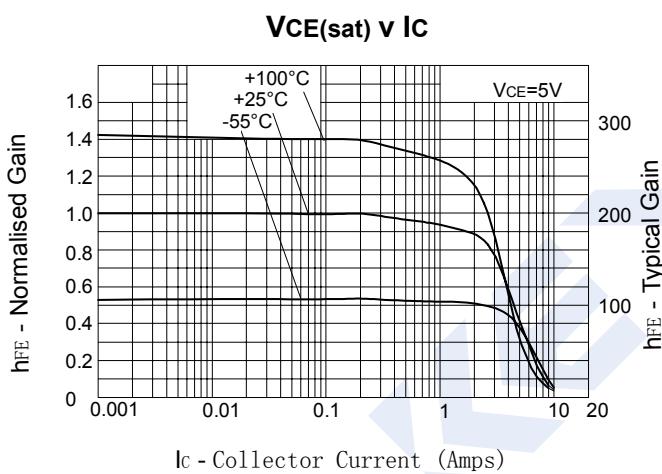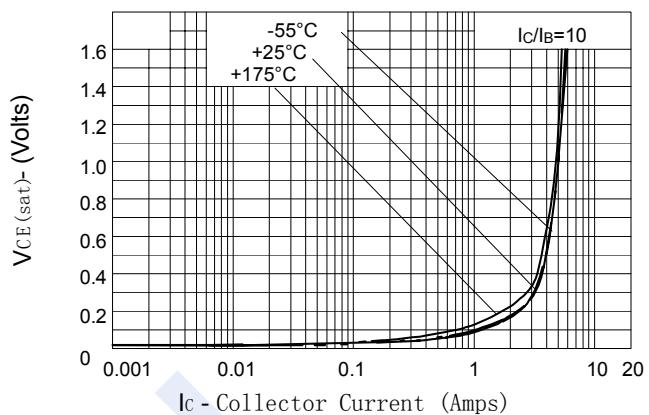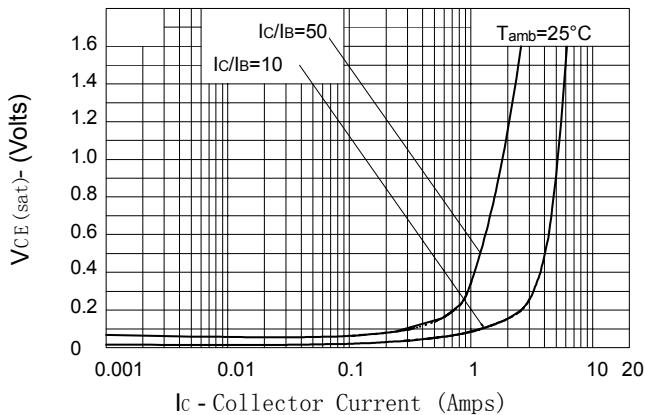
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■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	Ic= -100 μA, IE=0	-180			V
Collector- emitter breakdown voltage	V_{CER}	Ic=-1 uA, RB < 1kΩ	-180			
Collector- emitter breakdown voltage	V_{CEO}	Ic= -10 mA, IB=0	-140			
Emitter - base breakdown voltage	V_{EBO}	IE= -100 μA, Ic=0	-6			
Collector-base cut-off current	I_{CBO}	VCB= -150 V , IE=0			-50	nA
		VCB= -150 V , IE=0 , Ta = 100℃			-1	uA
Collector cut-off current R < 1kΩ	I_{CER}	VCB= -150 V , IE=0			-50	nA
		VCB= -150 V , IE=0 , Ta = 100℃			-1	uA
Emitter cut-off current	I_{EBO}	VEB= -6V , Ic=0			-100	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	Ic=-100 mA, IB=-5 mA			-60	mV
		Ic=-500 mA, IB=-50mA			-120	
		Ic=-1 A, IB=-100mA			-150	
		Ic=-3 A, IB=-300mA			-370	
Base - emitter saturation voltage	$V_{BE(sat)}$	Ic=-3 A, IB=-300mA			-1110	
Base - emitter turn-on voltage	$V_{BE(on)}$	VCE= -5V, Ic= -3A			-950	
DC current gain	h_{FE}	VCE= -5V, Ic= -10mA	100			
		VCE=- 5V, Ic= -1 A	100		300	
		VCE= -5V, Ic= -3 A	75			
		VCE= -5V, Ic= -10 A		10		
Switching Times	t_{on}	Ic=-1A, IB1=-100mA		68		ns
	t_{off}	IB2=100mA, VCC=-50V		1030		
Collector output capacitance	C_{ob}	VCB= -20V,f=1MHz		40		pF
Transition frequency	f_T	VCE= -10V, Ic= -100mA,f=50MHz		110		MHz

Note : Measured under pulsed conditions. Pulse width=300 us. Duty cycle ≤2%

■ Marking

Marking	FZT955 K****

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■ Typical Characterisitics

VCE(sat) v IC

VCE(sat) v IC

hFE v IC

VBE(sat) v IC

VBE(on) v IC

Safe Operating Area

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