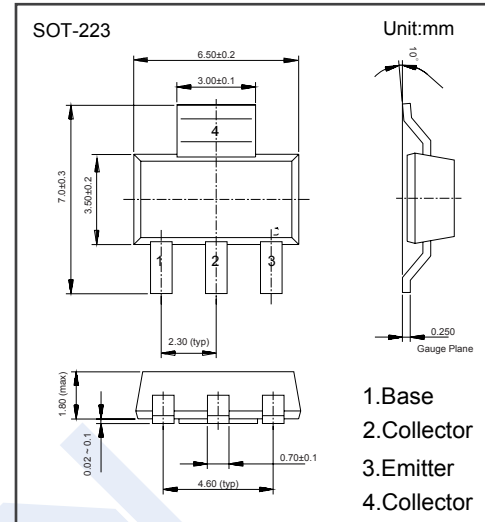


## PNP Transistors

## FZT953 (KZT953)

## ■ Features

- Collector Current Capability  $I_C = -5A$
- Collector Emitter Voltage  $V_{CE0} = -100V$
- Complementary to FZT853

■ Absolute Maximum Ratings  $T_a = 25^\circ C$ 

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CBO}$	-140	V
Collector - Emitter Voltage	$V_{CEO}$	-100	
Emitter - Base Voltage	$V_{EBO}$	-6	
Collector Current - Continuous	$I_C$	-5	A
Collector Current - Pulse	$I_{CP}$	-10	
Collector Power Dissipation	$P_C$	3	W
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature range	$T_{stg}$	-55 to 150	

## PNP Transistors

## FZT953 (KZT953)

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

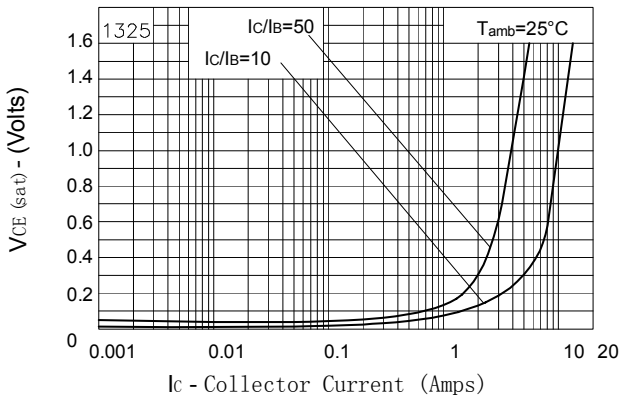
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CB0}$	$I_c = -100 \mu\text{A}, I_E = 0$	-140			V
Collector- emitter breakdown voltage	$V_{CER}$	$I_c = -1\mu\text{A}, R_B \leq 1\text{K}\Omega$	-140			
	$V_{CEO}$	$I_c = -10 \text{mA}, I_B = 0$	-100			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E = -100 \mu\text{A}, I_c = 0$	-6			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -100 \text{V}, I_E = 0$			-50	nA
		$V_{CB} = -100 \text{V}, I_E = 0, T_a = 100^\circ\text{C}$			-1	$\mu\text{A}$
Collector-emitter cut-off current ( $R \leq 1\text{K}\Omega$ )	$I_{CER}$	$V_{CB} = -100 \text{V}, I_E = 0$			-50	nA
		$V_{CB} = -100 \text{V}, I_E = 0, T_a = 100^\circ\text{C}$			-1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -6\text{V}, I_c = 0$			-10	nA
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -100\text{mA}, I_B = -10\text{mA}$ (Note.1)			-50	mV
		$I_c = -1 \text{A}, I_B = -100\text{mA}$ (Note.1)			-115	
		$I_c = -2 \text{A}, I_B = -200\text{mA}$ (Note.1)			-220	
		$I_c = -4 \text{A}, I_B = -400\text{mA}$ (Note.1)			-420	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = -4 \text{A}, I_B = -400\text{mA}$ (Note.1)			-1.17	V
Base-Emitter Turn-On Voltage	$V_{BE(on)}$	$V_{CE} = -1\text{V}, I_c = -4\text{A}$ (Note.1)			-1.16	
DC current gain (Note.1)	$h_{FE(1)}$	$V_{CE} = -1\text{V}, I_c = -10\text{mA}$	100			
	$h_{FE(2)}$	$V_{CE} = -1\text{V}, I_c = -1\text{A}$	100		300	
	$h_{FE(3)}$	$V_{CE} = -1\text{V}, I_c = -3 \text{A}$	50			
	$h_{FE(4)}$	$V_{CE} = -1\text{V}, I_c = -4 \text{A}$	30			
	$h_{FE(5)}$	$V_{CE} = -1\text{V}, I_c = -10 \text{A}$		15		
Switching Times	$t_{on}$	$I_c = -2\text{A}, I_{B1} = -200\text{mA}$		110		ns
	$t_{off}$	$I_{B2} = 200\text{mA}, V_{CC} = -10\text{V}$		460		
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, f = 1\text{MHz}$ (Note.1)		65		pF
Transition frequency	$f_T$	$V_{CE} = -10\text{V}, I_c = -100\text{mA}, f = 50\text{MHz}$		125		MHz

Note.1: Pulse width=300  $\mu\text{s}$ . Duty cycle  $\leq 2\%$

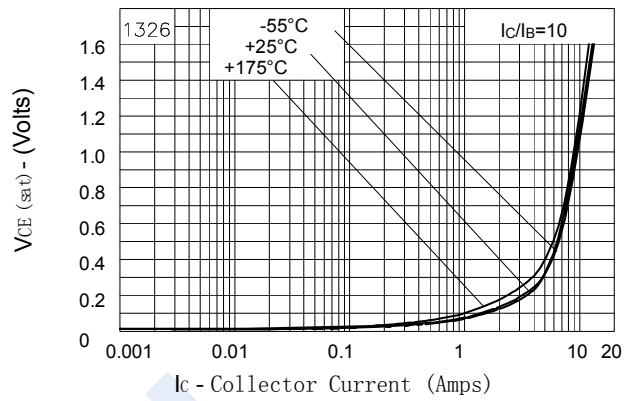
# PNP Transistors

## FZT953 (KZT953)

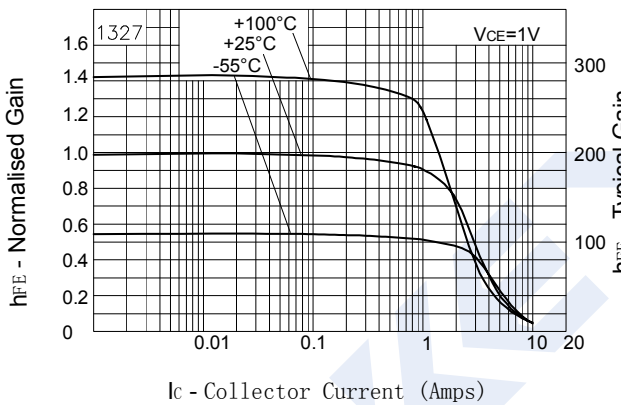
### Typical Characteristics



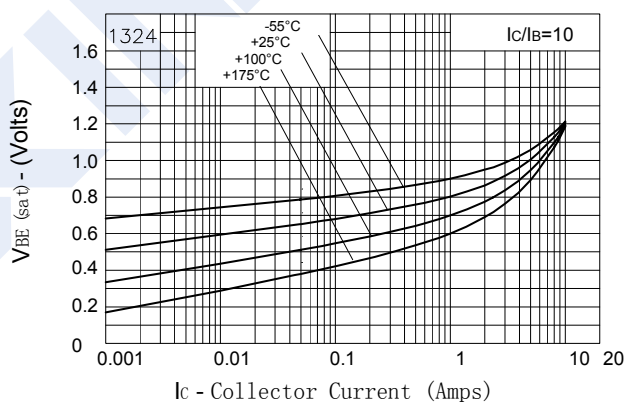
VCE(sat) v IC



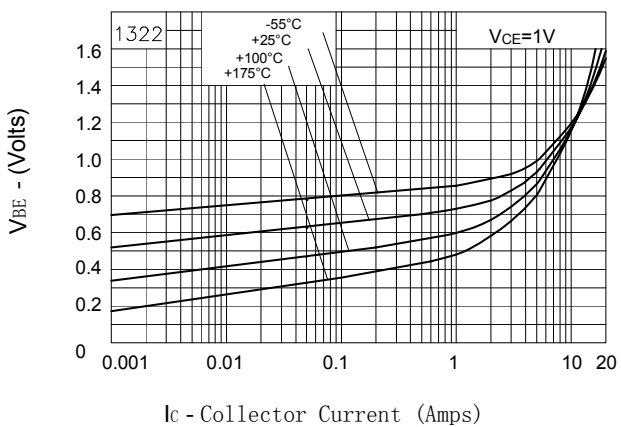
VCE(sat) v IC



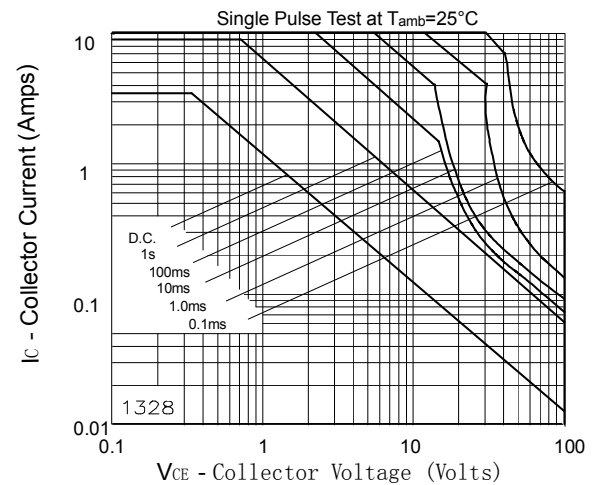
hFE v IC



VBE(sat) v IC



VBE(on) v IC



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