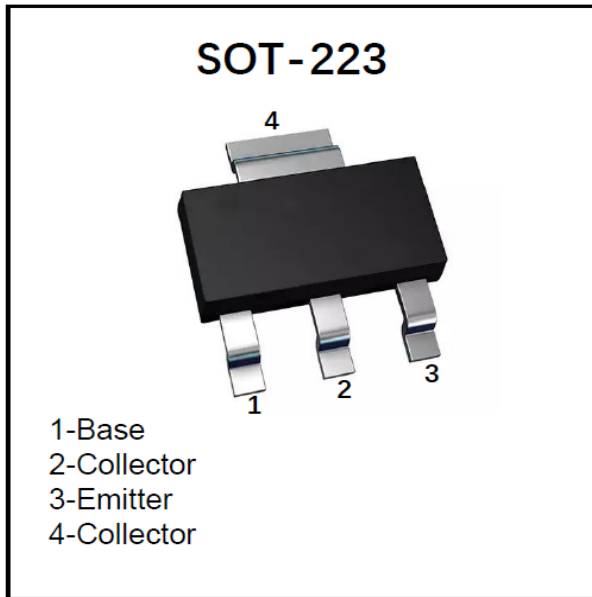


PNP Transistor



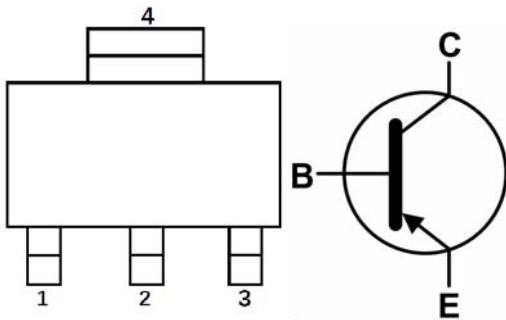
Features

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

Mechanical Data

- **Package:** SOT-223
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** FZT560

Equivalent circuit



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

Item	Symbol	Unit	Conditions	Value
Collector-Emitter Voltage	V_{CEO}	V		-500
Collector-Base Voltage	V_{CBO}	V		-500
Emitter-Base Voltage	V_{EBO}	V		-7
Collector Current	I_C	mA		-150
Power Dissipation (Note1)	P_D	mW		500
Thermal Resistance From Junction To Ambient (Note1)	$R_{\theta J-A}$	°C/W		250
Thermal Resistance, Junction-To-Case (Note1)	$R_{\theta J-C}$	°C/W		50
Operation Junction Temperature	T_j	°C		-55 to +150
Storage Temperature	T_{stg}	°C		-55 to +150

Note1: Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 25.4*25.4*1.5mm (thickness) .



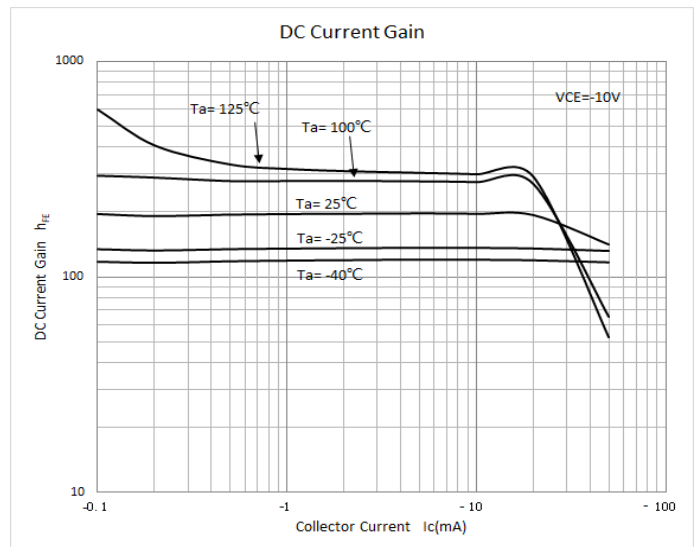
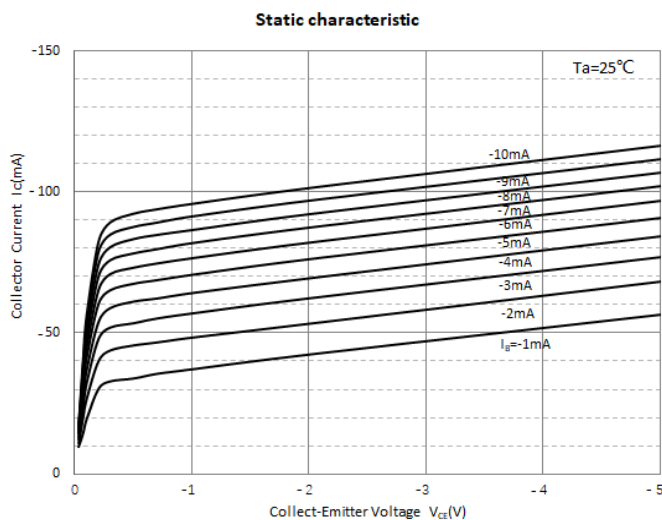
■ **Electrical Characteristics** (Ta=25°C unless otherwise noted)

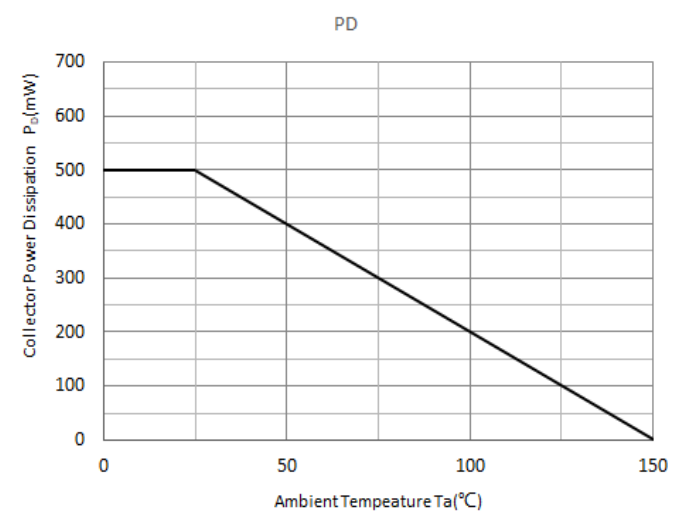
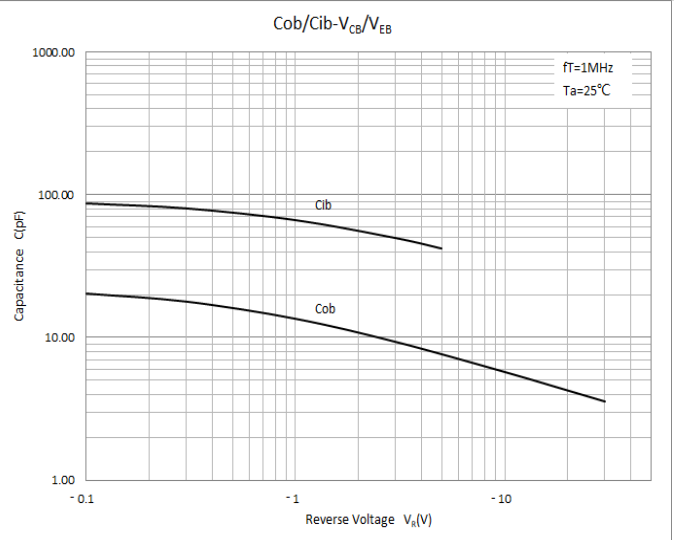
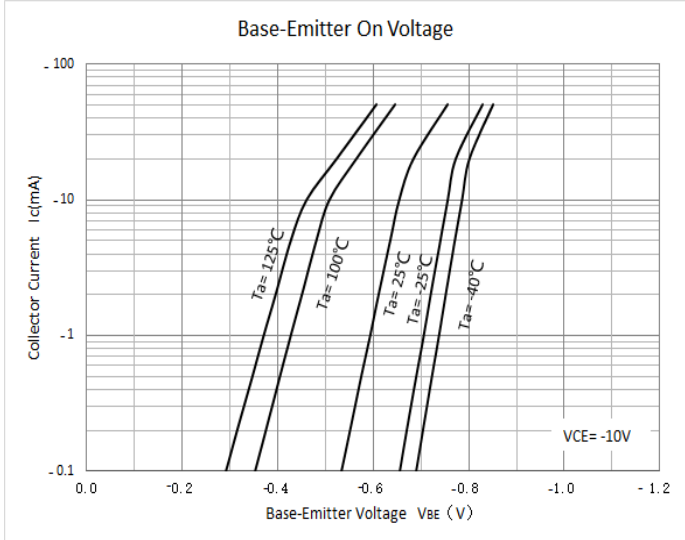
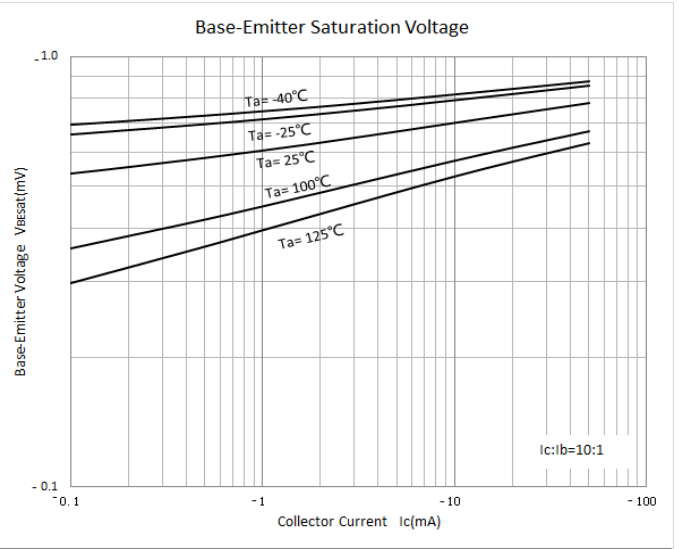
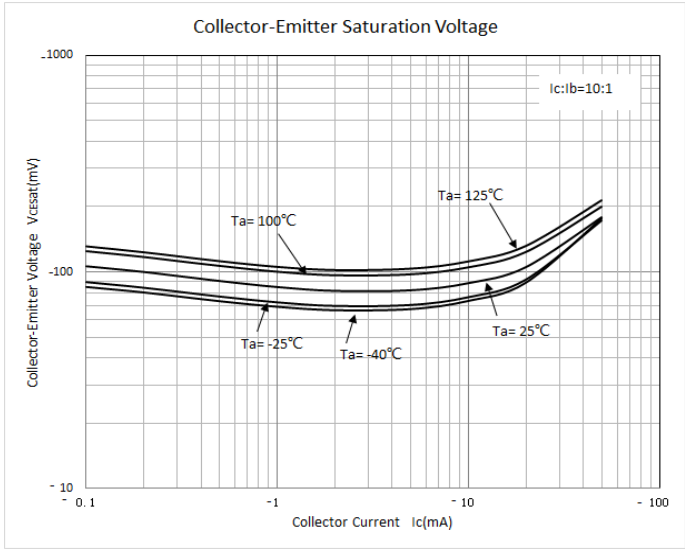
Item	Symbol	Unit	Conditions	Min	Typ	Max
Collector-Base Breakdown Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-500		
Collector-Emitter Breakdown Voltage	V_{CEO}	V	$I_C=-1mA, I_B=0$	-500		
Emitter-Base Breakdown Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-7		
Collector-Base Cut-Off Current	I_{CBO}	nA	$V_{CB}=-500V, I_E=0$			-100
Collector- Emitter Cut-Off Current	I_{CES}	nA	$V_{CE}=-500V, V_{BE}=0$			-100
Emitter-Base Cut-Off Current	I_{EBO}	nA	$V_{EB}=-5.6V, I_C=0$			-100
DC Current Gain	h_{FE}		$V_{CE}=-10V, I_C=-1mA$	100		300
			$V_{CE}=-10V, I_C=-50mA$	80		300
Collector-Emitter Saturation Voltage	$V_{CE(sat)1}$	V	$I_C=-20mA, I_B=-2mA$			-0.2
	$V_{CE(sat)2}$	V	$I_C=-50mA, I_B=-10mA$			-0.5
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=-50mA, I_B=-10mA$			-0.9
Base-Emitter Turn-On Voltage	$V_{BE(ON)}$	V	$V_{CE}=-10V, I_C=-50mA$			-0.9
Output Capacitance	C_{ob}	pF	$V_{CB}=-10V, I_E=0, f=1MHz$		5.8	

■ **Ordering Information** (Example)

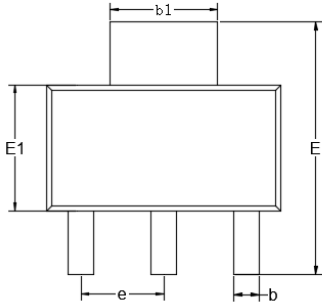
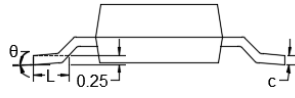
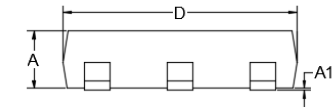
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
FZT560	F2	Approximate 0.11	2500	5000	25000	13" reel

■ **Characteristics** (Typical)



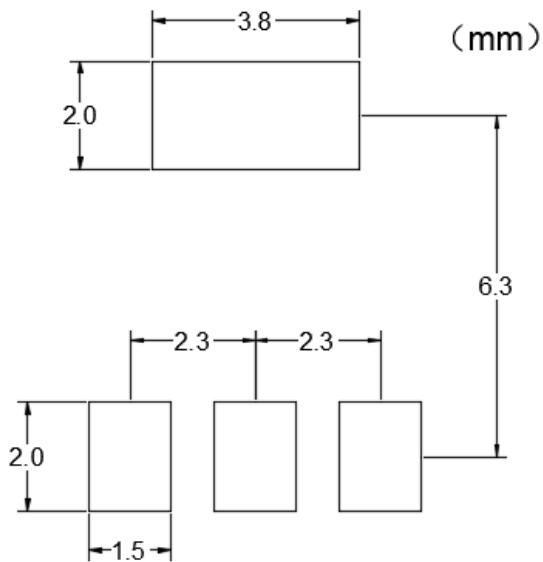


■SOT-223 Package Outline Dimensions



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	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
θ	0°	10°	0°	10°

■SOT-223 Suggested Pad Layout





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