

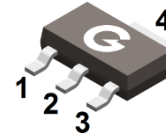
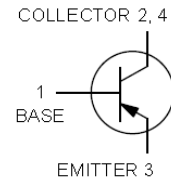
### Features

- Epitaxial planar die construction
- Complementary NPN type available(PZT5551)

HF

### Mechanical Data

- Case: SOT-223
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208



SOT-223

### Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
PZT5401	SOT-223	4000 pcs / Tape & Reel	2L

### Maximum Ratings (@ T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CB0</sub>	-160	V
Collector-Emitter Breakdown Voltage	V <sub>CEO</sub>	-150	V
Emitter-Base Breakdown Voltage	V <sub>EBO</sub>	-5	V
Collector Current (Continuous)	I <sub>C</sub>	-0.6	A

### Thermal Characteristics

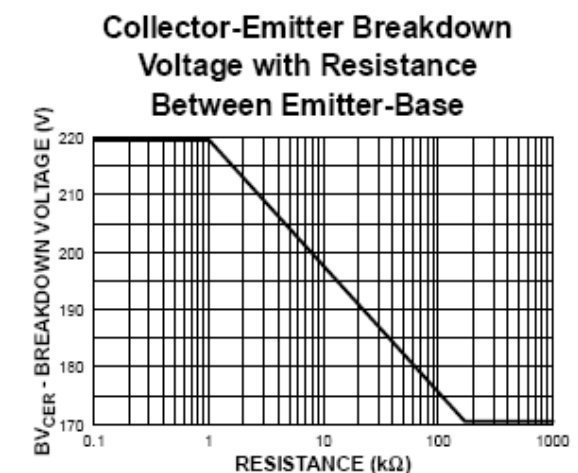
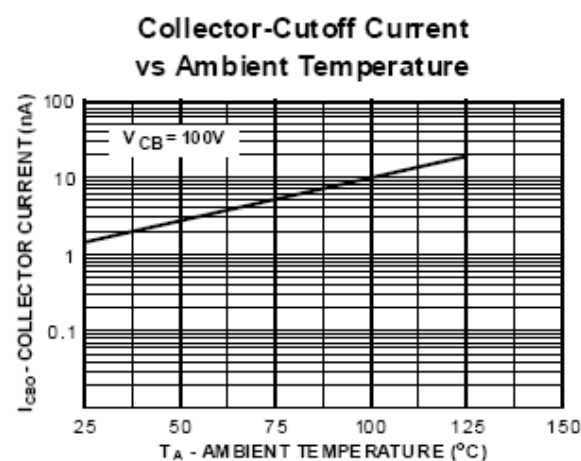
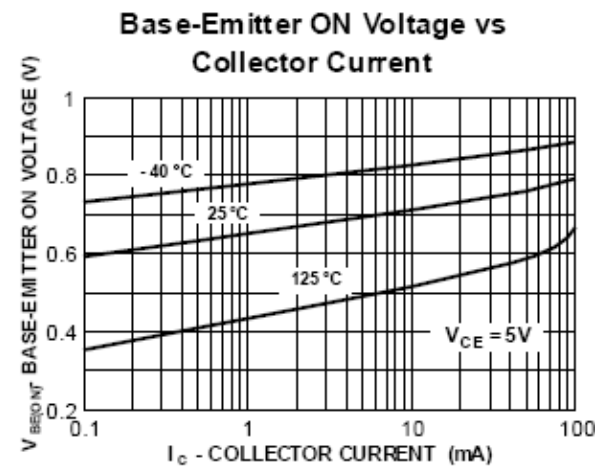
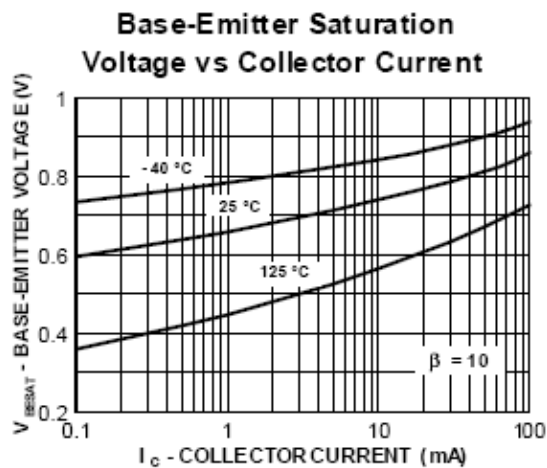
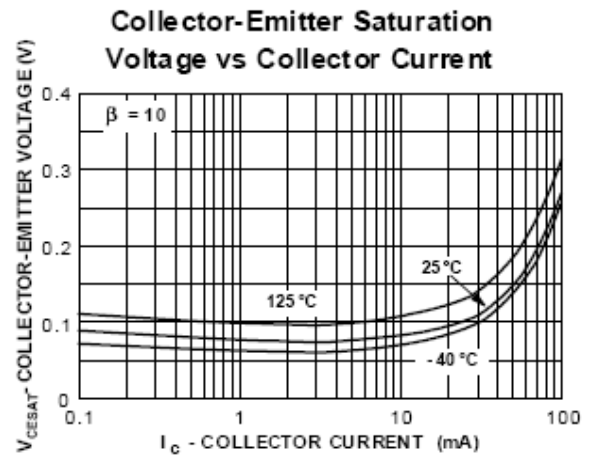
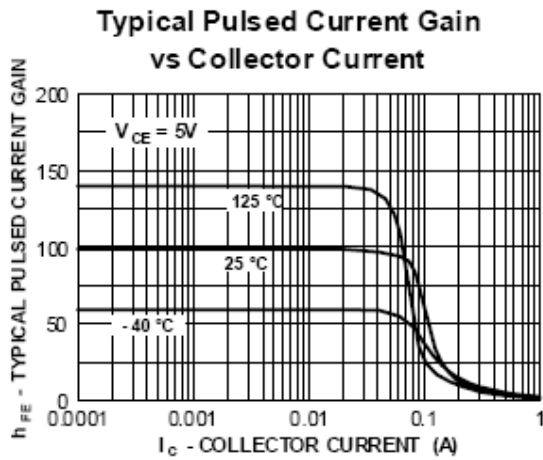
Parameter	Symbol	Value	Unit
Power Dissipation (Collector) **1	P <sub>D</sub>	1.15	W
Thermal Resistance (Junction-to-Ambient)	R <sub>θJA</sub>	108	°C/W
Junction Temperature	T <sub>J</sub>	-55 ~ +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	°C

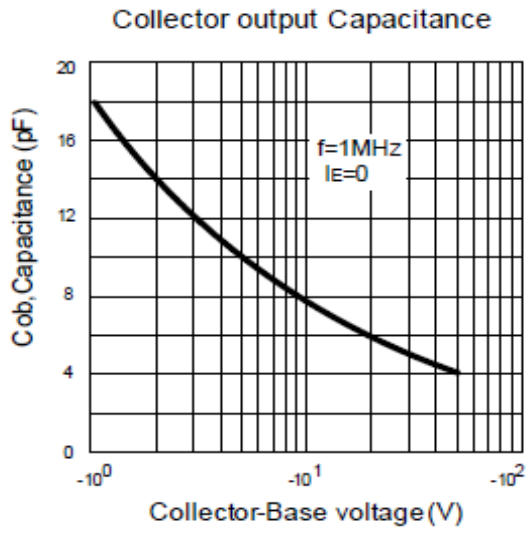
Note1: Device mounted on a printed-circuit board, single-sided copper, tinplated, mounting pad for collector 1 cm<sup>2</sup>

**Electrical Characteristics** (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

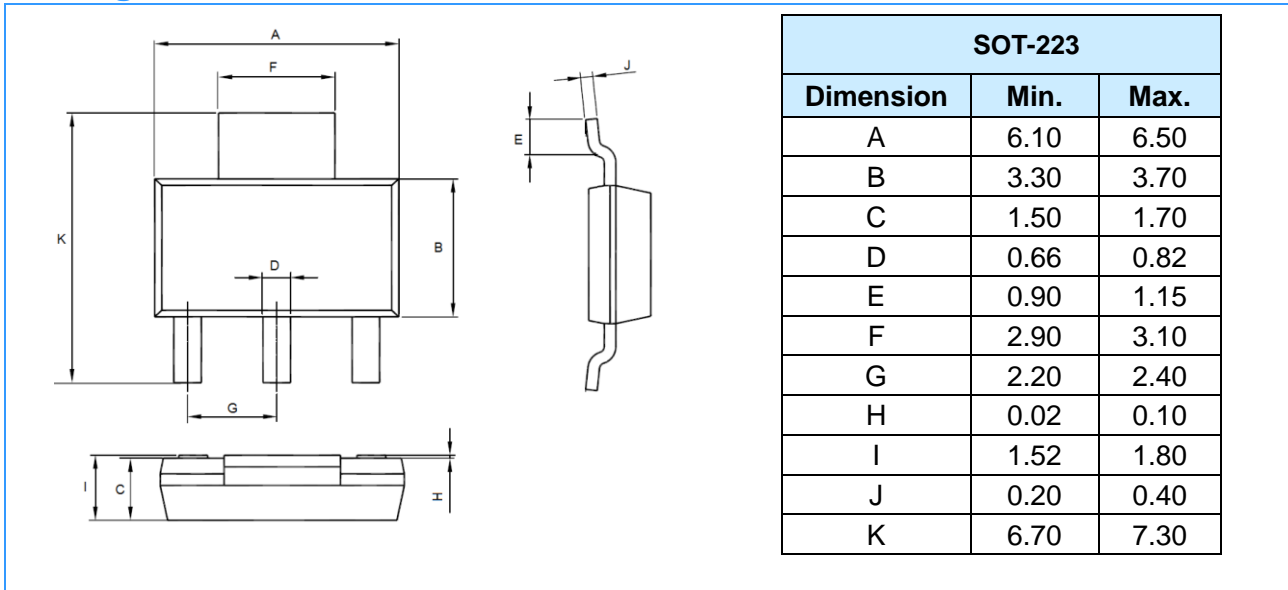
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}, I_E = 0$	-160	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1\text{mA}, I_B = 0$	-150	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10\mu\text{A}, I_C = 0$	-5	-	-	V
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -120\text{V}, I_E = 0$	-	-	-50	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -3\text{V}, I_C = 0$	-	-	-50	nA
DC Current Gain	$h_{FE}$	$V_{CE} = -5\text{V}, I_C = -1\text{mA}$	50	-	-	-
		$V_{CE} = -5\text{V}, I_C = -10\text{mA}$	100	-	300	-
		$V_{CE} = -5\text{V}, I_C = -50\text{mA}$	50	-	-	-
Collector-emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10\text{mA}, I_B = -1\text{mA}$	-	-	-0.2	V
		$I_C = -50\text{mA}, I_B = -5\text{mA}$	-	-	-0.5	V
Base-emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -10\text{mA}, I_B = -1\text{mA}$	-	-	-1	V
		$I_C = -50\text{mA}, I_B = -5\text{mA}$	-	-	-1	V
Collector-base Output Capacitance	$C_{cbo}$	$V_{CB} = -10\text{V}, f = 1\text{MHz}, I_E = 0$	-	-	6	pF
Current-Gain— Bandwidth Product	$f_T$	$I_C = -10\text{mA}, V_{CE} = -10\text{V}$ $f = 100\text{MHz}$	100	-	300	MHz

**Ratings and Characteristics Curves** (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

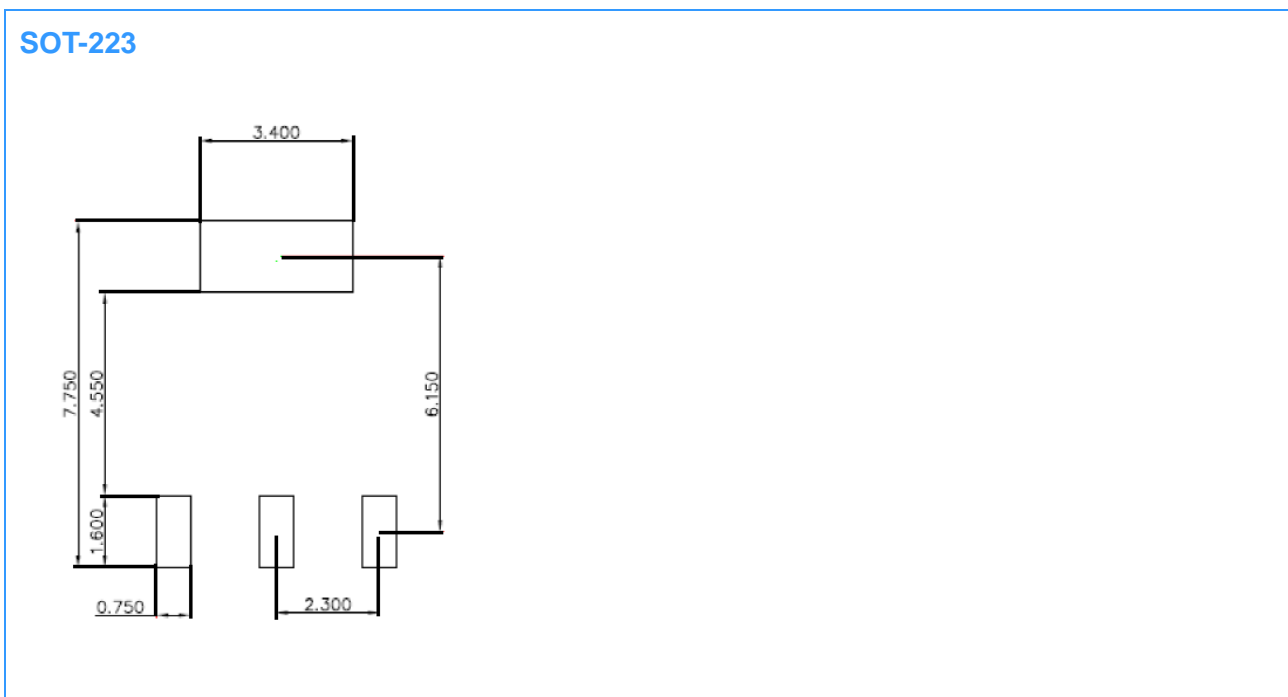




### Package Outline Dimensions (Unit: mm)



### Mounting Pad Layout (Unit: mm)



### IMPORTANT NOTICE

Changzhou Galaxy Century Microelectronics (GME) reserves the right to make changes without further notice to any product information (copyrighted) herein to make corrections, modifications, improvements, or other changes. GME does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others.