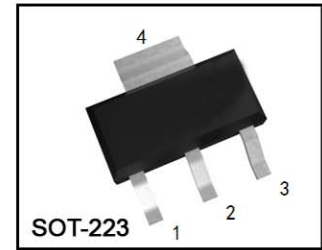
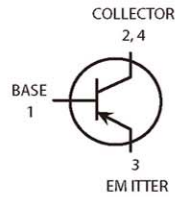


## PNP Silicon Planar Epitaxial Transistor



### ● ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V <sub>CEO</sub>	- 60	Vdc
Collector-Base Voltage	V <sub>CBO</sub>	- 60	Vdc
Emitter-Base Voltage	V <sub>EBO</sub>	- 5.0	Vdc
Collector Current (DC)	I <sub>C(DC)</sub>	-600	mAdc
Total Device Dissipation T <sub>A</sub> =25°C	P <sub>D</sub>	1.5	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage, Temperature	T <sub>stg</sub>	-55 to +150	°C

### ● Device Marking

PZT2907A=2907A

### ● ELECTRICAL CHARACTERISTICS

Characteristics	Symbol	Min	Max	Unit
Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =0)	V <sub>(BR)CEO</sub>	- 60		Vdc
Collector-Base Breakdown Voltage (I <sub>C</sub> =-10μAdc, I <sub>E</sub> =0)	V <sub>(BR)CBO</sub>	- 60		Vdc
Emitter-Base Breakdown Voltage (I <sub>E</sub> = -10 μAdc, I <sub>C</sub> =0)	V <sub>(BR)EBO</sub>	-5.0		Vdc
Base-Emitter Cutoff Current (V <sub>CE</sub> = -60 Vdc, V <sub>BE</sub> = -3.0Vdc)	I <sub>BEX</sub>		-20	nAdc
Collector-Emitter Cutoff Current (V <sub>CE</sub> = -30 Vdc, V <sub>BE</sub> =-0.5 Vdc)	I <sub>CEX</sub>		- 50	nAdc
Emitter-Base Cutoff Current (V <sub>EB</sub> = -3.0Vdc, I <sub>C</sub> =0)	I <sub>EBO</sub>		-100	nAdc

NOTE: 1.Device mounted on an epoxy printed circuit board 1.575 inches x1.575 inches x0.059 inches; mounting pad for the collector lead min. 0.93 inches.<sup>2</sup>

● **ELECTRICAL CHARACTERISTICS** Continued ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Characteristic	Symbol	Min	TYP	Max	Unit
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● **ON CHARACTERISTICS**

DC Current Gain ( $I_C = -100\text{ mAdc}$ $V_{CE} = -10\text{V}$ ) ( $I_C = -1.0\text{ mAdc}$ $V_{CE} = -10\text{V}$ ) ( $I_C = -10\text{ mAdc}$ $V_{CE} = -10\text{V}$ ) ( $I_C = -150\text{ mAdc}$ $V_{CE} = -10\text{V}$ ) ( $I_C = -500\text{ mAdc}$ $V_{CE} = -10\text{V}$ )	$h_{FE1}$ $h_{FE2}$ $h_{FE3}$ $h_{FE4}$ $h_{FE5}$	75 100 100 100 50	180	300	
Collector-Emitter Saturation Voltages ( $I_C = -150\text{ mAdc}$ $I_B = -15\text{ mAdc}$ ) ( $I_C = -500\text{ mAdc}$ $I_B = -50\text{ mAdc}$ )	$V_{CE(sat)}$		-0.2 -0.5	-0.4 -1.6	Vdc
Base-Emitter Saturation Voltages ( $I_C = -150\text{ mAdc}$ $I_B = -15\text{ mAdc}$ ) ( $I_C = -500\text{ mAdc}$ $I_B = -50\text{ mAdc}$ )	$V_{BE(sat)}$			-1.3 -2.6	Vdc

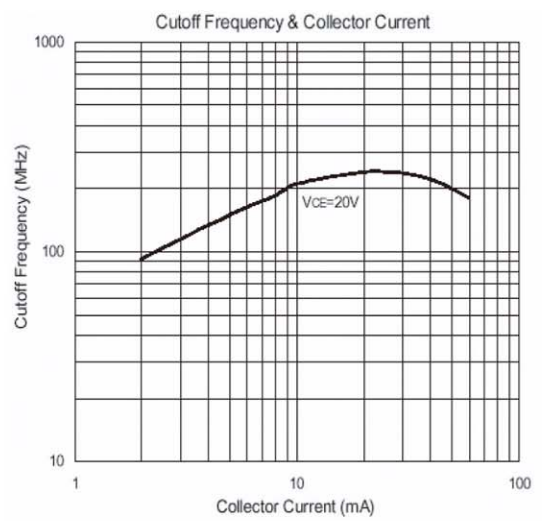
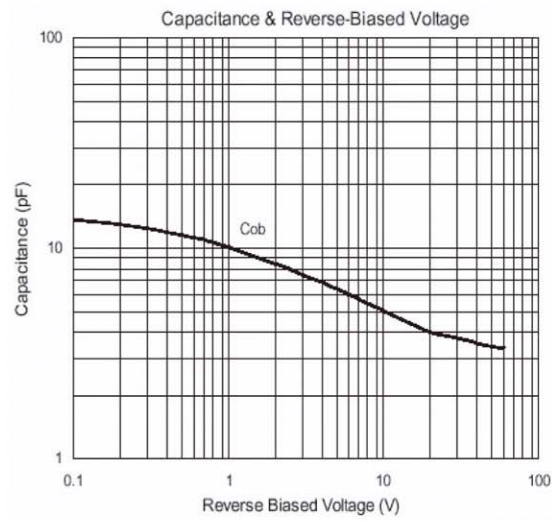
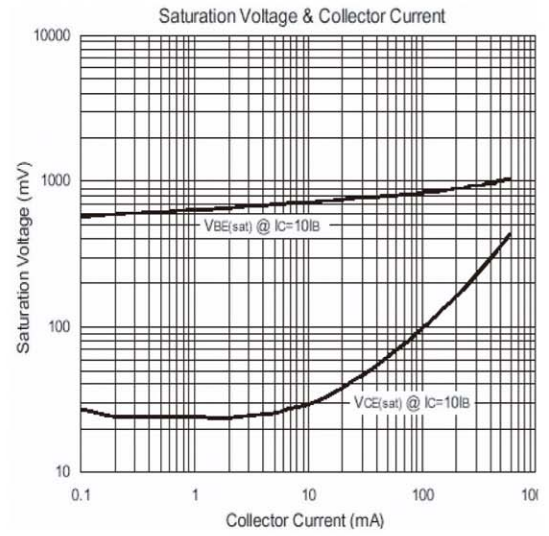
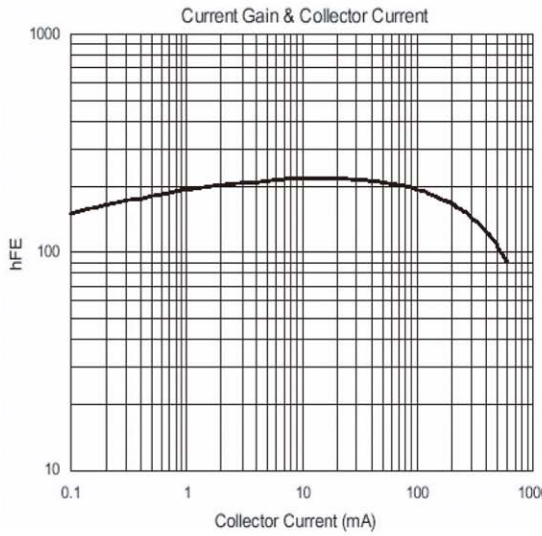
● **DYNAMIC CHARACTERISTICS**

Current Gain Bandwidth Product ( $I_C = -50\text{ mAdc}$ , $V_{CE} = -20\text{ Vdc}$ , $f = 100\text{ MHz}$ )	$f_T$	200			MHz
Output Capacitance ( $V_{CB} = -10\text{ Vdc}$ , $I_E = 0$ , $f = 1.0\text{ MHz}$ )	$C_c$			8.0	pF
Input Capacitance ( $V_{EB} = -2.0\text{ Vdc}$ , $I_C = 0$ , $f = 1.0\text{ MHz}$ )	$C_e$			30	pF

● **SWITCHING TIMES** ( $T_A = 25^\circ\text{C}$ )

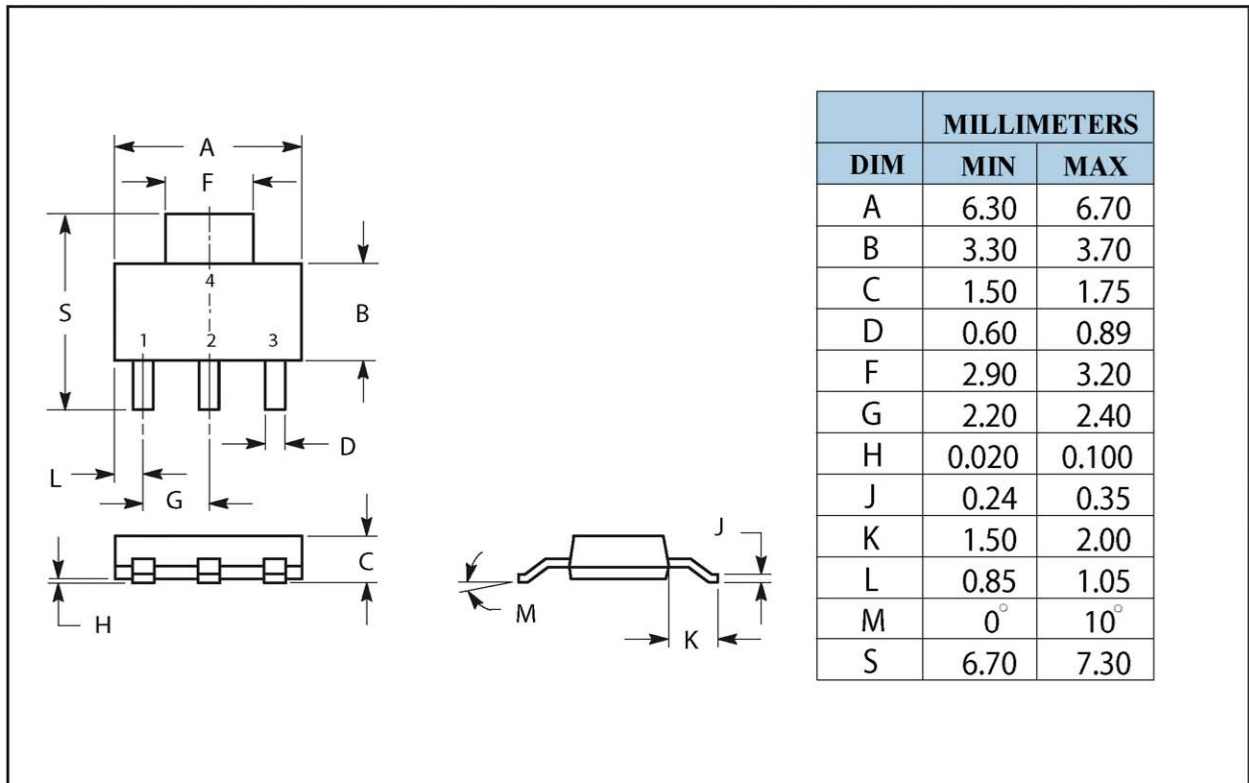
Turn On Time	$(V_{CC} = -30\text{ Vdc}$ , $I_C = -150\text{ mAdc}$ , $I_{B1} = -15\text{ mAdc}$ )	$t_{on}$		45	ns
Delay Time		$t_d$		10	
Rise Time		$t_r$		40	
Turn Off Time	$(V_{CC} = -6.0\text{ Vdc}$ , $I_C = -150\text{ mAdc}$ , $I_{B1} = I_{B2} = -15\text{ mAdc}$ )	$t_{off}$		100	ns
Storage Time		$t_s$		80	
Fall Time		$t_f$		30	

2. Pulse Test: Pulse Width  $\leq 300\mu\text{s}$ , Duty Cycle  $\leq 2.0\%$



## SOT-223 Outline Dimensions

unit:mm



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