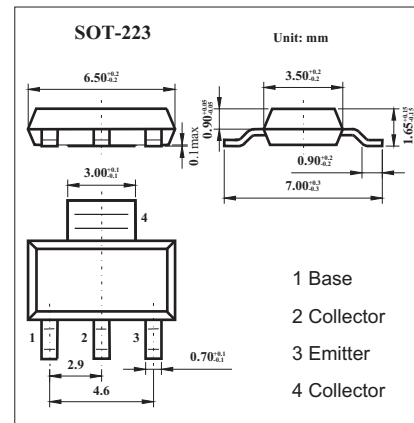


PNP High Voltage Amplifier PZTA92

■ Features

- High breakdown voltage
- Low collector-emitter saturation voltage
- Complementary to PZTA42(NPN)



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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	-300	V
Collector-Emitter Voltage	V_{CE0}	-300	V
Emitter-Base Voltage	V_{EB0}	-5.0	V
Collector Current -Continuous	I_C	-300	mA
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-to-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 100 \mu\text{A}, I_E = 0$	-300			V
Collector-to-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 1 \text{ mA}, I_B = 0$	-300			V
Emitter-to-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 100 \mu\text{A}, I_C = 0$	-5.0			V
Collector cutoff current	I_{CBO}	$V_{CB} = -200 \text{ V}, I_E = 0$			-0.25	μA
Collector cutoff current	I_{EBO}	$V_{CE} = -3.0 \text{ V}, I_C = 0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -10 \text{ V}, I_C = -1.0 \text{ mA}$	25			
		$V_{CE} = -10 \text{ V}, I_C = -10 \text{ mA}$	40			
		$V_{CE} = -10 \text{ V}, I_C = -30 \text{ mA}$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -20 \text{ mA}, I_B = -2.0 \text{ mA}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -20 \text{ mA}, I_B = -2.0 \text{ mA}$			-0.9	V
Transition frequency	f_T	$V_{CE} = -20 \text{ V}, I_C = -10 \text{ mA}, f = 100 \text{ MHz}$	50			MHz
Output Capacitance	C_{ob}	$V_{CB} = -20 \text{ V}, f = 1.0 \text{ MHz}, I_E = 0$			6.0	pF

■ Marking

Marking	A92
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