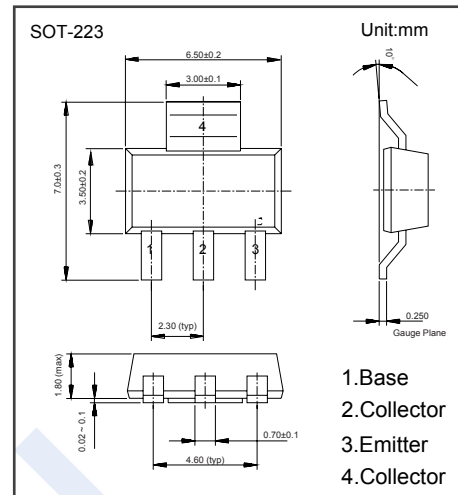


## PNP Transistors

## PZTA92 (KZTA92)

## ■ Features

- High Voltage Driver Applications
- Complementary to PZTA42

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

| Parameter                                   | Symbol          | Rating     | Unit               |
|---------------------------------------------|-----------------|------------|--------------------|
| Collector - Base Voltage                    | $V_{CBO}$       | -300       | V                  |
| Collector - Emitter Voltage                 | $V_{CEO}$       | -300       |                    |
| Emitter - Base Voltage                      | $V_{EBO}$       | -5         |                    |
| Collector Current - Continuous              | $I_C$           | -200       | mA                 |
| Collector Current - Pulse                   | $I_{CP}$        | -500       |                    |
| Collector Power Dissipation                 | $P_C$           | 1          | W                  |
| Thermal Resistance from Junction to Ambient | $R_{\theta JA}$ | 125        | $^\circ\text{C/W}$ |
| Junction Temperature                        | $T_J$           | 150        | $^\circ\text{C}$   |
| Storage Temperature Range                   | $T_{stg}$       | -55 to 150 |                    |

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

| Parameter                            | Symbol        | Test Conditions                                                           | Min  | Typ | Max  | Unit |
|--------------------------------------|---------------|---------------------------------------------------------------------------|------|-----|------|------|
| Collector- base breakdown voltage    | $V_{CBO}$     | $I_C = -100 \mu\text{A}$ , $I_E = 0$                                      | -300 |     |      | V    |
| Collector- emitter breakdown voltage | $V_{CEO}$     | $I_C = -1 \text{ mA}$ , $I_B = 0$                                         | -300 |     |      |      |
| Emitter - base breakdown voltage     | $V_{EBO}$     | $I_E = -100 \mu\text{A}$ , $I_C = 0$                                      | -5   |     |      |      |
| Collector-base cut-off current       | $I_{CBO}$     | $V_{CB} = -200 \text{ V}$ , $I_E = 0$                                     |      |     | -250 | nA   |
| Emitter cut-off current              | $I_{EBO}$     | $V_{EB} = -4 \text{ V}$ , $I_C = 0$                                       |      |     | -100 |      |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -20 \text{ mA}$ , $I_B = -2 \text{ mA}$                            |      |     | -0.5 | V    |
| Base - emitter saturation voltage    | $V_{BE(sat)}$ | $I_C = -20 \text{ mA}$ , $I_B = -2 \text{ mA}$                            |      |     | -0.9 |      |
| DC current gain                      | $h_{FE(1)}$   | $V_{CE} = -10 \text{ V}$ , $I_C = -1 \text{ mA}$                          | 25   |     |      |      |
|                                      | $h_{FE(2)}$   | $V_{CE} = -10 \text{ V}$ , $I_C = -10 \text{ mA}$                         | 40   |     |      |      |
|                                      | $h_{FE(3)}$   | $V_{CE} = -10 \text{ V}$ , $I_C = -30 \text{ mA}$                         | 25   |     |      |      |
| Collector output capacitance         | $C_{ob}$      | $V_{CB} = -20 \text{ V}$ , $I_E = 0$ , $f = 1 \text{ MHz}$                |      |     | 6    | pF   |
| Transition frequency                 | $f_T$         | $V_{CE} = -20 \text{ V}$ , $I_C = -10 \text{ mA}$ , $f = 100 \text{ MHz}$ | 50   |     |      | MHz  |

## PNP Transistors

## PZTA92 (KZTA92)

## ■ Typical Characteristics

