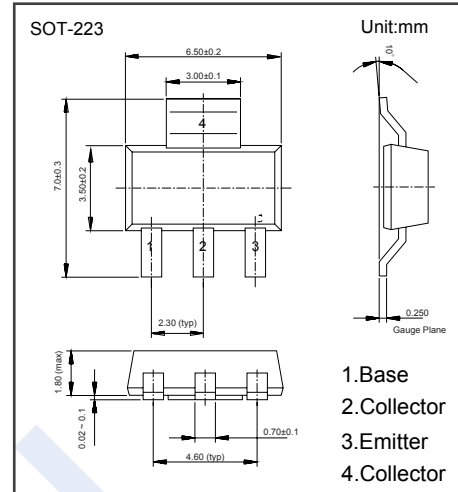


PNP Transistors

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_{CB0} | -300 | V |
| Collector - Emitter Voltage | V_{CE0} | -300 | |
| Emitter - Base Voltage | V_{EB0} | -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 | $^\circ\text{C}/\text{W}$ |
| 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_{CB0} | $I_C = -100 \mu\text{A}, I_E = 0$ | -300 | | | V |
| Collector- emitter breakdown voltage | V_{CE0} | $I_C = -1 \text{ mA}, I_B = 0$ | -300 | | | |
| Emitter - base breakdown voltage | V_{EB0} | $I_E = -100 \mu\text{A}, I_C = 0$ | -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

