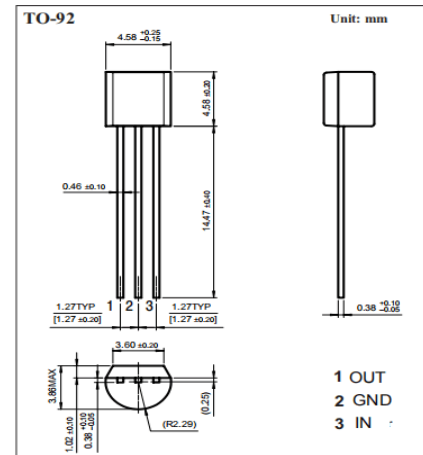


## PNP Transistors

### KTA1298

#### ■ Features

- Collector Power Dissipation:  $P_c=200\text{mW}$
- Collector Current:  $I_c=-800\text{mA}$



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

| Parameter                   | Symbol    | Rating     | Unit             |
|-----------------------------|-----------|------------|------------------|
| Collector-Emitter Voltage   | $V_{CEO}$ | -35        | V                |
| Collector-Base Voltage      | $V_{CBO}$ | -30        | V                |
| Emitter-Base Voltage        | $V_{EBO}$ | -5         | V                |
| Collector Current           | $I_c$     | -800       | mA               |
| Collector Power Dissipation | $P_c$     | 200        | mW               |
| Junction Temperature        | $T_j$     | 150        | $^\circ\text{C}$ |
| Storage Temperature Range   | $T_{stg}$ | -55 to 150 | $^\circ\text{C}$ |

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

| Parameter                            | Symbol        | Test conditions                            | Min | Typ | Max  | Unit          |
|--------------------------------------|---------------|--------------------------------------------|-----|-----|------|---------------|
| Collector-base breakdown voltage     | $V_{(BR)CBO}$ | $I_c=-1\text{mA}, I_E=0$                   | -35 |     |      | V             |
| Collector-emitter breakdown voltage  | $V_{(BR)CEO}$ | $I_c=-10\text{mA}, I_B=0$                  | -30 |     |      | V             |
| Emitter-base breakdown voltage       | $V_{(BR)EBO}$ | $I_E=-1\text{mA}, I_c=0$                   | -5  |     |      | V             |
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB}=-30\text{V}, I_E=0$                |     |     | -0.1 | $\mu\text{A}$ |
| Emitter Cut-off Current              | $I_{EBO}$     | $V_{EB}=-5\text{V}, I_c=0$                 |     |     | -0.1 | $\mu\text{A}$ |
| DC Current Gain                      | $h_{FE}$      | $V_{CE}=-1\text{V}, I_c=-100\text{mA}$     | 100 |     | 320  |               |
|                                      |               | $V_{CE}=-1\text{V}, I_c=-800\text{mA}$     | 40  |     |      |               |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_c=-500\text{mA}, I_B=-20\text{mA}$      |     |     | -0.4 | V             |
| Transition Frequency                 | $f_T$         | $V_{CE}=-5\text{V}, I_c=-10\text{mA}$      |     | 120 |      | MHz           |
| Collector Output Capacitance         | $C_{ob}$      | $V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$ |     | 13  |      | pF            |

#### ■ $h_{FE}$ Classification

| Type    | KTA1298-O | KTA1298-Y |
|---------|-----------|-----------|
| Range   | 100-200   | 160-320   |
| Marking | KIO       | KIY       |

## PNP Transistors

## KTA1298

## ■ Typical Characteristics

