

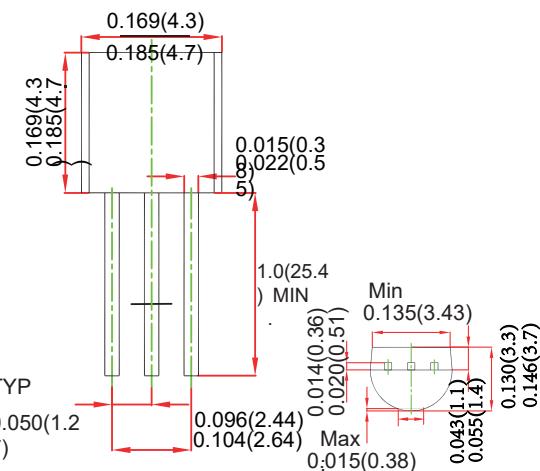
TO-92 Plastic-Encapsulate Transistors

FEATURES

- Excellent h_{FE} Linearity
- Low Noise
- Complementary to KTC3198
- TRANSISTOR (PNP)

MECHANICAL DATA

- Case style:TO-92 molded plastic
- Mounting position:any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-------------------|---|------------|-------|
| V _{CBO} | Collector-Base Voltage | -50 | V |
| V _{CEO} | Collector-Emitter Voltage | -50 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| I _C | Collector Current -Continuous | -150 | mA |
| P _D | Collector Power Dissipation | 625 | mW |
| R _{θ JA} | Thermal Resistance from Junction to Ambient | 200 | °C /W |
| T _j | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55 ~ +150 | °C |

ELECTRICAL CHARACTERISTICS Ta =25 °C unless otherwise specified

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C = -100μA, I _E =0 | -50 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-1mA, I _B =0 | -50 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-100μA, I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-50V, I _E =0 | | | -0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V, I _C =0 | | | -0.1 | μA |
| DC current gain | h _{FE(1)} | V _{CE} =-6V, I _C =-2mA | 70 | | 400 | |
| | h _{FE(2)} | V _{CE} =-6V, I _C =-150mA | 25 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-100mA, I _B =-10mA | | | -0.3 | V |
| Base-emitter saturation voltage | V _{BE(sat)} | I _C =-100mA, I _B =-10mA | | | -1.1 | V |
| Transition frequency | f _T | V _{CE} =-10V, I _C =-1mA | 80 | | | MHz |
| Collector output capacitance | C _{ob} | V _{CB} =-10V, I _E =0, f=1MHz | | | 7 | pF |
| Noise figure | NF | V _{CE} =-6V, I _C =-0.1mA, f=1KHZ, R _g =10KΩ | | | 10 | dB |

CLASSIFICATION OF h_{FE(1)}

| Rank | O | Y | GR |
|-------|--------|---------|---------|
| Range | 70-140 | 120-240 | 200-400 |

RATINGS AND CHARACTERISTIC CURVES

