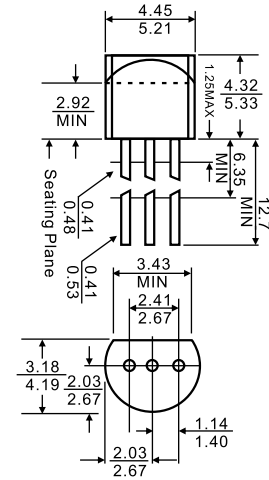


TO-92



1. EMITTER
2. COLLECTOR
3. BASE



Dimensions in inches and (millimeters)

Features

- ✧ Excellent h_{FE} linearity

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Units |
|-----------|-------------------------------|---------|--------------------|
| V_{CBO} | Collector-Base Voltage | -35 | V |
| V_{CEO} | Collector-Emitter Voltage | -30 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current -Continuous | -500 | mA |
| P_C | Collector Power Dissipation | 500 | mW |
| T_j | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -55-150 | $^{\circ}\text{C}$ |

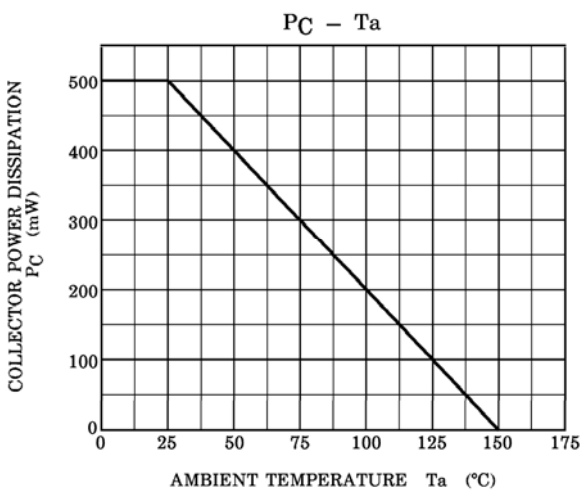
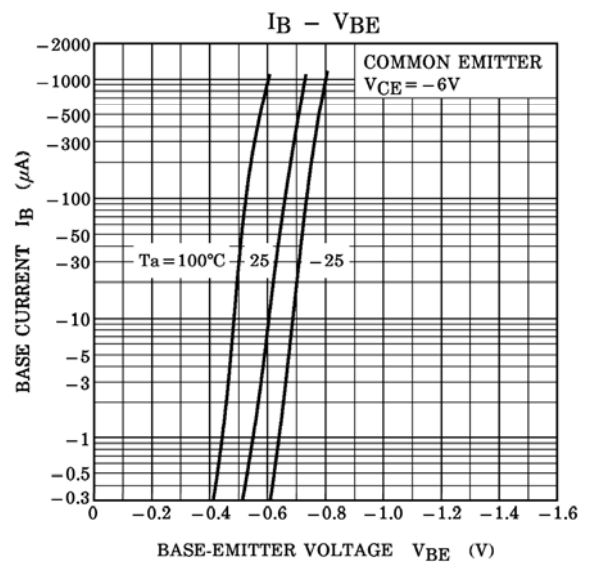
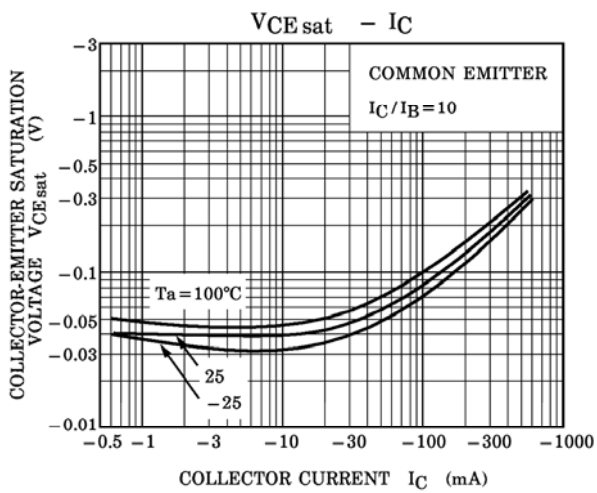
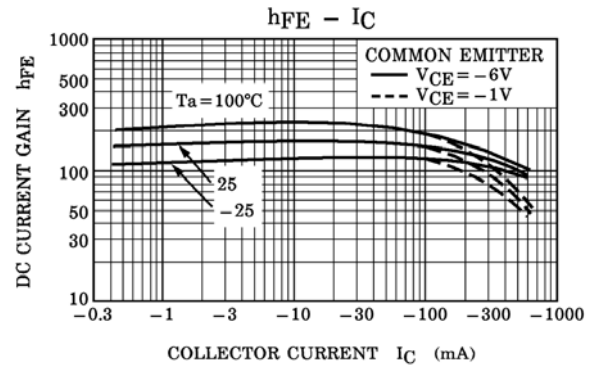
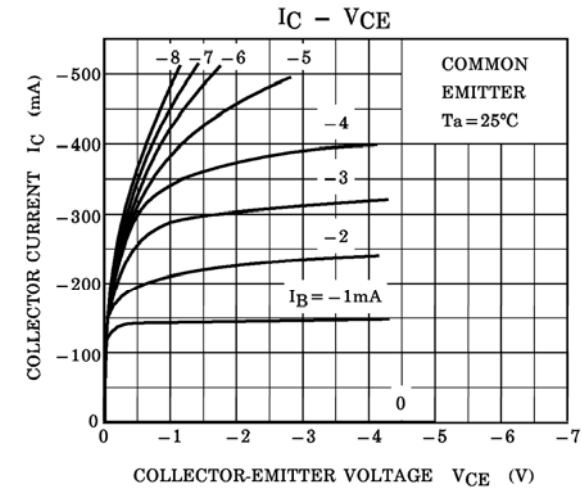
ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|---|-----|-----|-------|---------------|
| Collector-base breakdown voltage | $V(BR)_{CBO}$ | $I_C = -100\mu\text{A}$, $I_E = 0$ | -35 | | | V |
| Collector-emitter breakdown voltage | $V(BR)_{CEO}$ | $I_C = -1\text{mA}$, $I_B = 0$ | -30 | | | V |
| Emitter-base breakdown voltage | $V(BR)_{EBO}$ | $I_E = -100\mu\text{A}$, $I_C = 0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -35\text{V}$, $I_E = 0$ | | | -0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5\text{V}$, $I_C = 0$ | | | -0.1 | μA |
| DC current gain | h_{FE} | $V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$ | 70 | | 240 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -100\text{mA}$, $I_B = -10\text{mA}$ | | | -0.25 | V |
| Base-emitter voltage | V_{BE} | $V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$ | | | -1 | V |
| Transition frequency | f_T | $V_{CE} = -6\text{V}$, $I_C = -20\text{mA}$ | | 200 | | MHz |
| Collector output capacitance | C_{ob} | $V_{CB} = -6\text{V}$, $I_E = 0$, $f = 1\text{MHz}$ | | 13 | | pF |

CLASSIFICATION OF h_{FE}

| Rank | O | Y |
|-------|--------|---------|
| Range | 70-140 | 120-240 |

Typical Characteristics



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