

TO-92 Plastic-Encapsulate MOSFETS

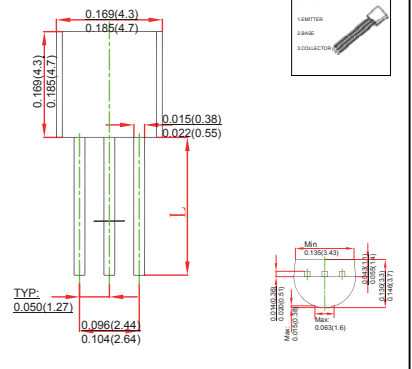
Features

- High Total Power Dissipation (PC = 0.45W)
- High hFE and Good Linearity
- Complementary to S9014
- PNP Transistors

MECHANICAL DATA

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

TO-92



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|-----------------------------|------------|------|
| V _{CB0} | Collector Base Voltage | -50 | V |
| V _{CEO} | Collector Emitter Voltage | -45 | V |
| V _{EBO} | Emitter Base Voltage | -5 | V |
| I _c | Collector Current | -0.1 | A |
| P _c | Collector Power Dissipation | 450 | mW |
| T _j | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | -55 ~ +150 | °C |

Electrical Characteristics (Ta=25°C unless otherwise specified)

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|----------------------|--------------------------------------|--|-----|-----|------|------|
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C = -100μA, I _E = 0 | -50 | | | V |
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C = -1mA, I _B = 0 | -45 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E = -100μA, I _C = 0 | -5 | | | V |
| I _{cBO} | Collector cut-off current | V _{CB} = -50V, I _E = 0 | | | -50 | nA |
| I _{EBO} | Emitter cut-off current | V _{EB} = -5V, I _C = 0 | | | -50 | nA |
| h _{FE(1)} | DC current gain | V _{CE} = -5V, I _C = -1mA | 200 | | 300 | |
| h _{FE(2)} | | V _{CE} = -5V, I _C = -10mA | 90 | | | |
| h _{FE(3)} | | V _{CE} = -5V, I _C = -50mA | 50 | | | |
| V _{CE(sat)} | Collector-emitter saturation voltage | I _C = -100mA, I _B = -10mA | | | -0.3 | V |
| V _{BE(sat)} | Base-emitter saturation voltage | I _C = -100mA, I _B = -10mA | | | -1.0 | V |
| f _T | Transition frequency | V _{CE} = -5V, I _C = -10mA, f = 30MHz | 100 | | | MHz |

Typical Characteristics

