

General Purpose Transistor

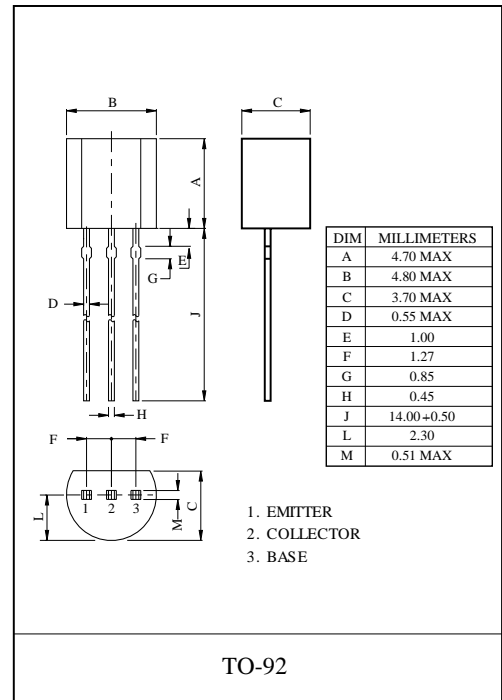
PNP Silicon

FEATURES

General Purpose Application Switching Application

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|------------------|-------------------------------|-----------|------|
| V _{CB0} | Collector- Base Voltage | - 35 | V |
| V _{CEO} | Collector- Emitter Voltage | - 30 | V |
| V _{EBO} | Emitter- Base Voltage | - 5 | V |
| I _C | Collector Current –Continuous | - 0.5 | A |
| P _C | Collector Power Dissipation | 500 | mW |
| T _J | Junction Temperature | 150 | °C |
| T _{stg} | Storage Temperature | - 55- 150 | °C |



ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

| Parameter | Symbol | Test condition | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|----------------------------------------------------------------|------|-----|--------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _C = - 100μA, I _E =0 | - 35 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C = - 1mA, I _B =0 | - 30 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E = - 100μA, I _C =0 | - 5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} = - 35 V, I _E =0 | | | 0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = - 5 V, I _C =0 | | | 0.1 | μA |
| DC current gain | h _{FE1} | V _{CE} = - 1 V, I _C = - 100mA | 70 | | 240 | |
| | h _{FE2} | V _{CE} = - 6 V, I _C = - 400mA | 25 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C = - 100mA, I _B = - 10mA | | | - 0.25 | V |
| Base-emitter voltage | V _{BE(on)} | V _{CE} = - 1V, I _C = - 100mA | | | - 1 | V |
| Transition frequency | f _T | V _{CE} = - 6 V, I _C = - 20mA f = 100MHz | | 200 | | MHz |
| Collector output capacitance | C _{ob} | V _{CB} = - 6V, I _E =0, f=1MHz | | 13 | | pF |

CLASSIFICATION OF h_{FE}

| Rank | | O | Y |
|-------|--------------------|---------|----------|
| Range | h _{FE(1)} | 70~ 140 | 120~ 240 |
| | h _{FE(2)} | 25(min) | 40(min) |

Typical Characteristics

