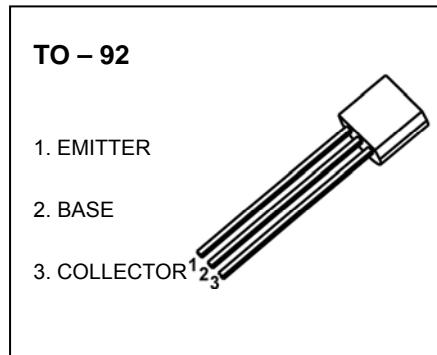


2N6517 TRANSISTOR (NPN)**FEATURES**

- Complement to 2N6520

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

| Symbol | Parameter | Value | Unit |
|------------------|---|----------|------|
| V _{CBO} | Collector-Base Voltage | 350 | V |
| V _{CEO} | Collector-Emitter Voltage | 350 | V |
| V _{EBO} | Emitter-Base Voltage | 6 | V |
| I _c | Collector Current | 0.5 | A |
| P _c | Collector Power Dissipation | 625 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 200 | °C/W |
| 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 conditions | Min | Typ | Max | Unit |
|--------------------------------------|------------------------|---|-----|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I _c =0.1mA, I _E =0 | 350 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _c =1mA, I _B =0 | 350 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =0.01mA, I _c =0 | 6 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =250V, I _E =0 | | | 0.05 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} =5V, I _c =0 | | | 0.05 | μA |
| DC current gain | h _{FE} * | V _{CE} =10V, I _c =1mA | 20 | | | |
| | | V _{CE} =10V, I _c =10mA | 30 | | | |
| | | V _{CE} =10V, I _c =30mA | 30 | | 200 | |
| | | V _{CE} =10V, I _c =50mA | 20 | | 200 | |
| | | V _{CE} =10V, I _c =100mA | 15 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} * | I _c =10mA, I _B =1mA | | | 0.3 | V |
| | | I _c =50mA, I _B =5mA | | | 1 | V |
| Base-emitter saturation voltage | V _{BE(sat)} * | I _c =10mA, I _B =1mA | | | 0.75 | V |
| | | I _c =20mA, I _B =2mA | | | 0.85 | V |
| | | I _c =30mA, I _B =3mA | | | 0.9 | V |
| Base-emitter voltage | V _{BE} * | V _{CE} =10V, I _c =100mA | | | 2 | V |
| Transition frequency | f _T * | V _{CE} =20V, I _c =10mA, f=20MHz | 40 | | 200 | MHz |
| Collector output capacitance | C _{ob} | V _{CB} =20V, I _E =0, f=1MHz | | | 6 | pF |

*Pulse test: pulse width ≤300μs, duty cycle≤ 2.0%.