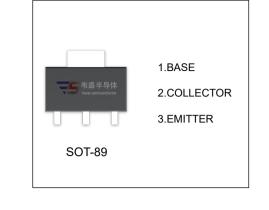


2SA1661 TRANSISTOR (PNP)

FEATURES

- Small Flat Package
- High Current Application
- High Voltage
- High Transition Frequency



MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|----------------------------------|--|----------|------|
| V _{CBO} | Collector-Base Voltage | -120 | V |
| V _{CEO} | Collector-Emitter Voltage | -120 | V |
| V _{EBO} | Emitter-Base Voltage | -5 | V |
| Ic | Collector Current | -0.8 | А |
| Pc | Collector Power Dissipation | 500 | mW |
| R _{θJA} | Thermal Resistance From Junction To Ambient | 250 | °C/W |
| T _J ,T _{stg} | Operation Junction and Storage Temperature Range | -55~+150 | ℃ |

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

| Parameter | Symbol | Test conditions | Min | Тур | Max | Unit |
|--------------------------------------|----------------------|---|------|-----|------|------|
| Collector-base breakdown voltage | V _{(BR)CBO} | I_C = -1mA, I_E =0 | -120 | | | V |
| Collector-emitter breakdown voltage | V _{(BR)CEO} | I _C =-10mA,I _B =0 | -120 | | | V |
| Emitter-base breakdown voltage | V _{(BR)EBO} | I _E =-1mA,I _C =0 | -5 | | | V |
| Collector cut-off current | I _{CBO} | V _{CB} =-120V,I _E =0 | | | -100 | nA |
| Emitter cut-off current | I _{EBO} | V _{EB} =-5V,I _C =0 | | | -100 | nA |
| DC current gain | h _{FE} | V _{CE} =-5V, I _C =-100mA | 80 | | 240 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-500mA,I _B =-50mA | | | -1 | V |
| Base-emitter voltage | V_{BE} | V _{CE} =-5V, I _C =-500mA | | | -1 | V |
| Collector output capacitance | C _{ob} | V _{CB} =-10V,I _E =0, f=1MHz | | | 30 | pF |
| Transition frequency | f⊤ | Vc=-5V,lc=-0.1A, f=30MHz | | 120 | | MHz |

CLASSIFICATION OF h_{FE}

| RANK | 0 | Υ |
|---------|----------|-----------|
| RANGE | 80 - 160 | 120 - 240 |
| MARKING | DO. | DY. |



