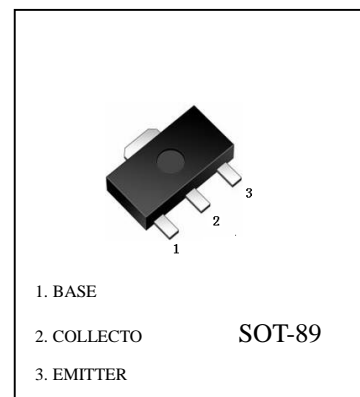


FEATURES

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

2SA1661 (PNP)

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

| Symbol | Parameter | Value | Unit |
|-----------------|---|----------|-----------------------------|
| V_{CB0} | Collector-Base Voltage | -120 | V |
| V_{CEO} | Collector-Emitter Voltage | -120 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current | -0.8 | A |
| P_C | Collector Power Dissipation | 500 | mW |
| $R_{\theta JA}$ | Thermal Resistance From Junction To Ambient | 250 | $^{\circ}\text{C}/\text{W}$ |
| T_j | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -55~+150 | $^{\circ}\text{C}$ |

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

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---|------|-----|------|------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C = -1\text{mA}, I_E = 0$ | -120 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C = -10\text{mA}, I_B = 0$ | -120 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E = -1\text{mA}, I_C = 0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -120\text{V}, I_E = 0$ | | | -100 | nA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5\text{V}, I_C = 0$ | | | -100 | nA |
| DC current gain | h_{FE} | $V_{CE} = -5\text{V}, I_C = -100\text{mA}$ | 80 | | 240 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -500\text{mA}, I_B = -50\text{mA}$ | | | -1 | V |
| Base-emitter voltage | V_{BE} | $V_{CE} = -5\text{V}, I_C = -500\text{mA}$ | | | -1 | V |
| Collector output capacitance | C_{ob} | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | | | 30 | pF |
| Transition frequency | f_T | $V_{CE} = -5\text{V}, I_C = -0.1\text{A}, f = 30\text{MHz}$ | | 120 | | MHz |

CLASSIFICATION OF h_{FE}

| RANK | O | Y |
|---------|----------|-----------|
| RANGE | 80 - 160 | 120 - 240 |
| MARKING | DO. | DY. |

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