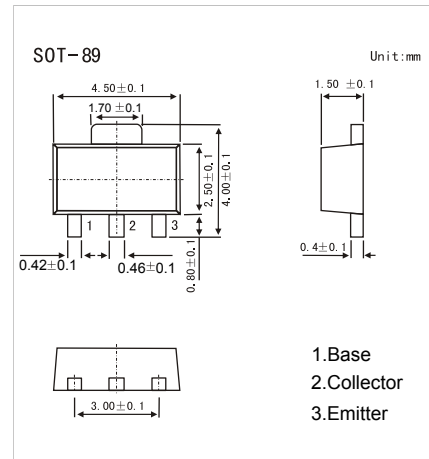


PNP Transistors
2SA1575
■ Features

- High fr.
- High breakdown voltage.
- Small reverse transfer capacitance and excellent high-frequency characteristic.
- Complementary to 2SC4080


■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--------------------------------|------------------|------------|------|
| Collector - Base Voltage | V _{CB0} | -200 | V |
| Collector - Emitter Voltage | V _{CEO} | -200 | |
| Emitter - Base Voltage | V _{EBO} | -4 | |
| Collector Current - Continuous | I _C | -100 | mA |
| Collector Current - Pulse | I _{CP} | -200 | |
| Collector Power Dissipation | P _C | 500 | mW |
| Junction Temperature | T _J | 150 | °C |
| Storage Temperature range | T _{stg} | -55 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|------|-----|------|------|
| Collector- base breakdown voltage | V _{CB0} | I _C = -100 μA, I _E =0 | -200 | | | V |
| Collector- emitter breakdown voltage | V _{CEO} | I _C = -1 mA, R _{BE} = ∞ | -200 | | | |
| Emitter - base breakdown voltage | V _{EBO} | I _E = -100 μA, I _C =0 | -4 | | | |
| Collector-base cut-off current | I _{CBO} | V _{CB} = -150 V, I _E =0 | | | -0.1 | μA |
| Emitter cut-off current | I _{EBO} | V _{EB} = -3V, I _C =0 | | | -0.1 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-20 mA, I _B =-2 mA | | | -1 | V |
| Base - emitter saturation voltage | V _{BE(sat)} | I _C =-20 mA, I _B =-2 mA | | | -1 | |
| DC current gain | h _{FE} | V _{CE} = -10V, I _C = -10mA | 40 | | 320 | |
| | | V _{CE} = -10V, I _C = -60mA | 20 | | | |
| Reverse Transfer Capacitance | C _{re} | V _{CB} = -30V, f=1MHz | | 1.7 | | pF |
| Collector output capacitance | C _{ob} | V _{CB} = -30V, f=1MHz | | 2.3 | | |
| Transition frequency | f _T | V _{CE} = -30V, I _C = -30mA | | 400 | | MHz |

■ Classification of h_{FE}

| Type | 2SA1575-C | 2SA1575-D | 2SA1575-E | 2SA1575-F |
|---------|-----------|-----------|-----------|-----------|
| Range | 40-80 | 60-120 | 100-200 | 160-320 |
| Marking | AFC | AFD | AFE | AFF |