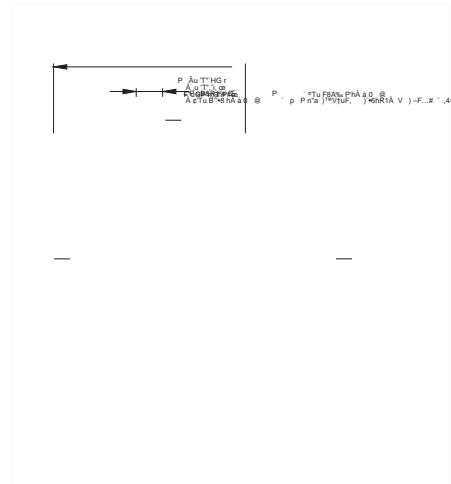


High voltage: $V_{CE0} = -50\text{ V}$

(min) Small package

Complementary to 2SC3325



| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|--------------------|
| Collector-base voltage | V_{CB0} | -50 | V |
| Collector-emitter voltage | V_{CE0} | -50 | V |
| Emitter-base voltage | V_{EB0} | -5 | V |
| Collector current | I_C | -500 | mA |
| Base current | I_B | -50 | mA |
| Collector power dissipation | P_C | 200 | mW |
| Junction temperature | T_j | 150 | $^{\circ}\text{C}$ |
| Storage temperature | T_{stg} | -55 to +150 | $^{\circ}\text{C}$ |

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---|-----|-----|-------|---------------|
| Collector- base breakdown voltage | V_{CB0} | $I_C = -100\mu\text{A}$ $I_E = 0$ | -50 | | | V |
| Collector- emitter breakdown voltage | V_{CE0} | $I_C = -1\text{ mA}$ $I_B = 0$ | -50 | | | |
| Emitter - base breakdown voltage | V_{EB0} | $I_E = -100\mu\text{A}$ $I_C = 0$ | -5 | | | |
| Collector-base cut-off current | I_{CB0} | $V_{CB} = -50\text{ V}$, $I_E = 0$ | | | -0.1 | μA |
| Emitter cut-off current | I_{EB0} | $V_{EB} = -5\text{ V}$, $I_C = 0$ | | | -0.1 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -100\text{ mA}$, $I_B = -10\text{ mA}$ | | | -0.25 | V |
| Base-emitter saturation voltage | $V_{CB(sat)}$ | $I_C = -100\text{ mA}$, $I_B = -10\text{ mA}$ | | | -1.2 | |
| Base - emitter voltage | V_{BE} | $V_{CE} = -1\text{ V}$, $I_C = -100\text{ mA}$ | | | -1 | |
| DC current gain | $h_{FE(1)}$ | $V_{CE} = -1\text{ V}$, $I_C = -100\text{ mA}$ | 70 | | 240 | |
| | $h_{FE(2)}$ | $V_{CE} = -1\text{ V}$, $I_C = -800\text{ mA}$ | 25 | | | |
| | | | 40 | | | |
| Collector output capacitance | C_{ob} | $V_{CB} = -6\text{ V}$, $I_E = 0$, $f = 1\text{ MHz}$ | | 13 | | pF |
| Transition frequency | f_T | $V_{CE} = -6\text{ V}$, $I_C = -20\text{ mA}$ | | 200 | | MHz |

Classification of $h_{fe(1)}$

| Type | 2SA1313-O | 2SA1313-Y |
|---------|-----------|-----------|
| Range | 70-140 | 120-240 |
| Marking | ACO | ACY |

Typical Characteristics

