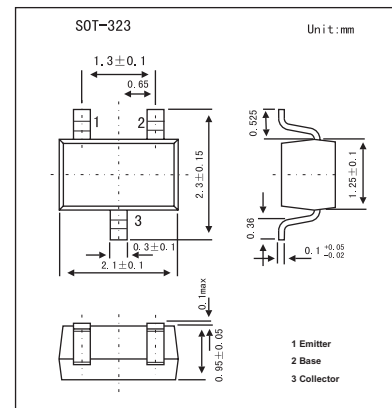


2SA1979UF

■ Features

- Large collector current.
- Suitable for low-voltage operation because of its low saturation voltage.



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|---------------------------|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | -40 | V |
| Collector-emitter voltage | V _{CEO} | -32 | V |
| Emitter-base voltage | V _{EB0} | -5 | V |
| Collector current | I _C | -500 | mA |
| Collector dissipation | P _C | 200 | mW |
| Junction temperature | T _J | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

■ Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|---|-----|-----|-------|------|
| Collector-base breakdown voltage | BV _{CB0} | I _C =-100μA, I _E =0 | -40 | | | V |
| Collector-emitter breakdown voltage | BV _{CEO} | I _C =-1mA, I _B =0 | -32 | | | V |
| Emitter-base breakdown voltage | BV _{EB0} | I _E =-10μA, I _C =0 | -5 | | | V |
| Collector cutoff current | I _{CB0} | V _{CB} =-40V, I _E =0 | | | -0.1 | μA |
| Emitter cutoff current | I _{EB0} | V _{EB} =-5V, I _C =0 | | | -0.1 | μA |
| DC current transfer ratio | h _{FE} | V _{CE} =-1V, I _C =-100mA | 70 | | 240 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C =-100mA, I _B =-10mA | | | -0.25 | V |
| Transition frequency | f _T | V _{CE} =-6V, I _C =-20mA | | 200 | | MHz |
| Output capacitance | C _{ob} | V _{CB} =-6V, I _E =0, f=1MHz | | 7.5 | | pF |

■ hFE Classification

| Marking | A | |
|---------|--------|---------|
| Rank | O | Y |
| hFE | 70~140 | 120~240 |