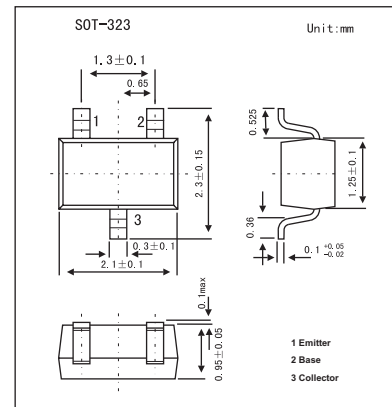


PNP General Purpose Transistor

2PA1576

■ Features

- Low current (max. 100 mA)
- Low voltage (max. 40 V).
- Low collector capacitance (typ. 2.5 pF).

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|---|---------------|-------------|------------------|
| Collector-base voltage | V_{CB0} | -50 | V |
| Collector-emitter voltage | V_{CEO} | -40 | V |
| Emitter-base voltage | V_{EBO} | -5 | V |
| Collector current | I_C | -100 | mA |
| Peak collector current | I_{CM} | -200 | mA |
| Peak base current | I_{BM} | -200 | mA |
| Total power dissipation | P_{tot} | 200 | mW |
| Storage temperature | T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Operating ambient temperature | T_{amb} | -65 to +150 | $^\circ\text{C}$ |
| thermal resistance from junction to ambient | $R_{th\ j-a}$ | 625 | K/W |

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|---|---------------|---|-------------------|-----|-------------------|---------------|
| Collector cut-off current | I_{CBO} | $I_E = 0; V_{CB} = -30\text{ V}$ | | | -100 | nA |
| | | $I_E = 0; V_{CB} = -30\text{ V}; T_j = 150\text{ }^\circ\text{C}$ | | | -5 | μA |
| Emitter cut-off current | I_{EBO} | $I_C = 0; V_{EB} = -4\text{ V}$ | | | -100 | nA |
| DC current gain 2PA1576Q 2PA1576R 2PA1576S | h_{FE} | $I_C = -1\text{ mA}; V_{CE} = -6\text{ V}$ | 120 180 270 | | 270 390 560 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -50\text{ mA}; I_B = -5\text{ mA}; *$ | | | -500 | mV |
| Collector capacitance | C_c | $I_E = i_e = 0; V_{CB} = -12\text{ V}; f = 1\text{ MHz}$ | | 2.5 | 3.5 | pF |
| Transition frequency | f_T | $I_C = -2\text{ mA}; V_{CE} = -12\text{ V}; f = 100\text{ MHz}$ | 100 | | | MHz |

* Pulse test: $t_p \leq 300\text{ }\mu\text{s}; \delta \leq 0.02$.

■ h_{FE} Classification

| TYPE | 2PA1576Q | 2PA1576R | 2PA1576S |
|---------|----------|----------|----------|
| Marking | FQ | FR | FS |