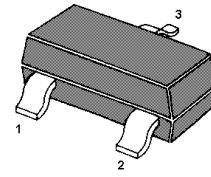


MMBTSA1576

PNP Silicon Epitaxial Planar Transistor

The transistor is subdivided into three groups Q, R and S according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



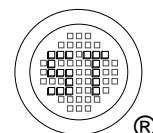
1.BASE 2.EMITTER 3.COLLECTOR
TO-236 Plastic Package

Features

- Excellent h_{FE} linearity

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

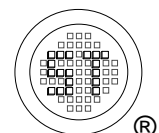
| | Symbol | Value | Unit |
|---------------------------|------------|-------------|------------------|
| Collector Base Voltage | $-V_{CBO}$ | 60 | V |
| Collector Emitter Voltage | $-V_{CEO}$ | 50 | V |
| Emitter Base Voltage | $-V_{EBO}$ | 6 | V |
| Collector Current | $-I_C$ | 150 | mA |
| Power Dissipation | P_{tot} | 200 | mW |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{Stg} | -55 to +150 | $^\circ\text{C}$ |



MMBTSA1576

Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

| | | Symbol | Min. | Typ. | Max. | Unit |
|---|---|----------------|------|------|------|---------------|
| DC Current Gain at $-V_{CE} = 6\text{ V}$, $-I_C = 1\text{ mA}$ | Q | h_{FE} | 120 | - | 270 | - |
| | R | h_{FE} | 180 | - | 390 | - |
| | S | h_{FE} | 270 | - | 560 | - |
| Collector Cutoff Current at $-V_{CB} = 60\text{ V}$ | | $-I_{CBO}$ | - | - | 0.1 | μA |
| Emitter Cutoff Current at $-V_{EB} = 6\text{ V}$ | | $-I_{EBO}$ | - | - | 0.1 | μA |
| Collector Saturation Voltage at $-I_C = 50\text{ mA}$, $-I_B = 5\text{ mA}$ | | $-V_{CE(sat)}$ | - | - | 0.5 | V |
| Collector Base Breakdown Voltage at $-I_C = 50\text{ }\mu\text{A}$ | | $-V_{(BR)CBO}$ | 60 | - | - | V |
| Collector Emitter Breakdown Voltage at $-I_C = 1\text{ mA}$ | | $-V_{(BR)CEO}$ | 50 | - | - | V |
| Emitter Base Breakdown Voltage at $-I_E = 50\text{ }\mu\text{A}$ | | $-V_{(BR)EBO}$ | 6 | - | - | V |
| Transition Frequency at $-V_{CE} = 12\text{ V}$, $-I_E = 2\text{ mA}$, $f = 30\text{ MHz}$ | | f_T | - | 140 | - | MHz |
| Output Capacitance at $-V_{CB} = 12\text{ V}$, $f = 1\text{ MHz}$ | | Cob | - | - | 5 | pF |



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