ST 2SA1585

PNP Silicon Epitaxial Planar Transistor

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

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



1. Emitter 2. Collector 3. Base

TO-92 Plastic Package Weight approx. 0.19g

Absolute Maximum Ratings (T_a = 25 °C)

| Parameter | Symbol | Value | Unit | |
|---------------------------|---|---------------|------|--|
| Collector Base Voltage | -V _{CBO} | 20 | V | |
| Collector Emitter Voltage | -V _{CEO} | 20 | V | |
| Emitter Base Voltage | -V _{EBO} | 6 | V | |
| Collector Current | -I _C -I _{CP} ¹⁾ | 2 5 | А | |
| Power Dissipation | P _{tot} | 400 | mW | |
| Junction Temperature | Tj | 150 | °C | |
| Storage Temperature Range | Ts | - 55 to + 150 | °C | |

¹⁾ Single pulse Pw = 10 ms

Characteristics at T_a = 25 °C

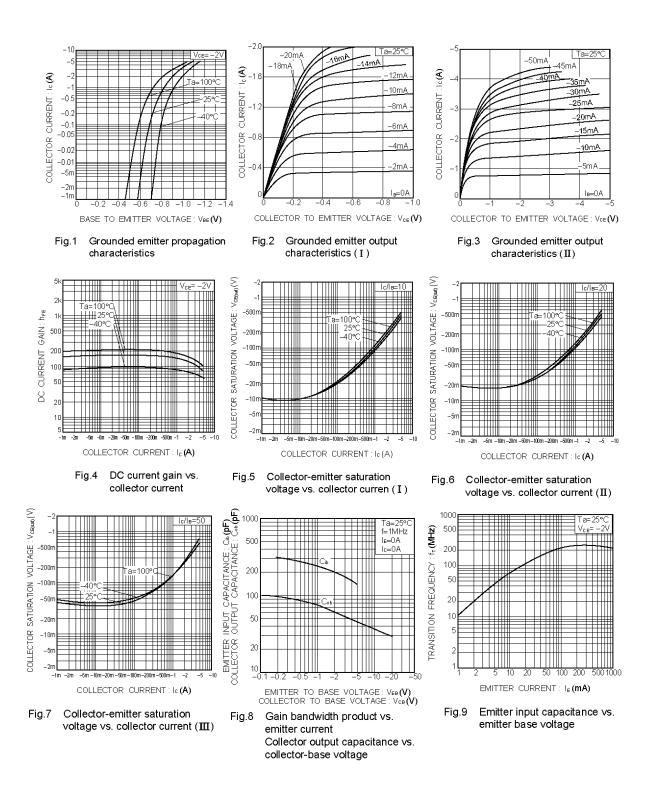
| Parameter | Symbol | Min. | Тур. | Max. | Unit |
|---|------------------------------------|------------|------|------------|------|
| DC Current Gain at $-V_{CE} = 2 V$, $-I_C = 100 mA$ Current Gain Group Q R | h _{FE} h _{FE} | 120 180 | - | 270 390 | - |
| Collector Base Breakdown Voltage at $-I_C = 50 \ \mu A$ | -V _{(BR)CBO} | 20 | - | - | V |
| Collector Emitter Breakdown Voltage at $-I_C = 1 \text{ mA}$ | -V _{(BR)CEO} | 20 | - | - | V |
| Emitter Base Breakdown Voltage at $-I_E = 50 \ \mu A$ | -V _{(BR)EBO} | 6 | - | - | V |
| Collector Cutoff Current at $-V_{CB} = 20 V$ | -I _{CBO} | - | - | 100 | nA |
| Emitter Cutoff Current at $-V_{EB} = 5 V$ | -I _{EBO} | - | - | 100 | nA |
| Collector Emitter Saturation Voltage at $-I_C = 2 A$, $-I_B = 0.1 A$ | -V _{CE(sat)} | - | - | 0.5 | V |
| Transition Frequency at $-V_{CE} = 2 \text{ V}$, $I_E = 500 \text{ mA}$, f = 100 MHz | f _T | - | 240 | - | MHz |
| Output Capacitance at $-V_{CB} = 10 \text{ V}, \text{ f} = 1 \text{ MHz}$ | C _{OB} | - | 35 | - | pF |



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