

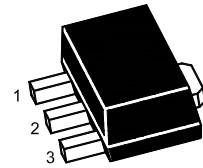


2SB772SQ

Silicon PNP Power Transistor

Features

- High current output up to 3A
- Low saturation voltage
- Complement to 2SD882SQ

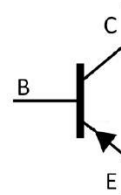


SOT-89

PIN1: Base PIN 2: Collector PIN 3: Emitter

Applications

These devices are intended for use in audio frequency power amplifier and low speed switching applications



Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

| Parameter | Symbol | Rating | Unit |
|------------------------------|------------------------------|---------|------|
| Collector to Base Voltage | $-V_{CBO}$ | 40 | V |
| Collector to Emitter Voltage | $-V_{CEO}$ | 30 | V |
| Emitter to Base Voltage | $-V_{EBO}$ | 5 | V |
| Collector Current-Continuous | $-I_C$ | 3 | A |
| Peak Collector Current | $-I_{CP}$ | 7 | A |
| Base Current - Continuous | $-I_B$ | 0.6 | A |
| Total Power Dissipation | P_D | 1 | W |
| Total Power Dissipation | $P_D (T_C=25^\circ\text{C})$ | 10 | W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -55~150 | °C |



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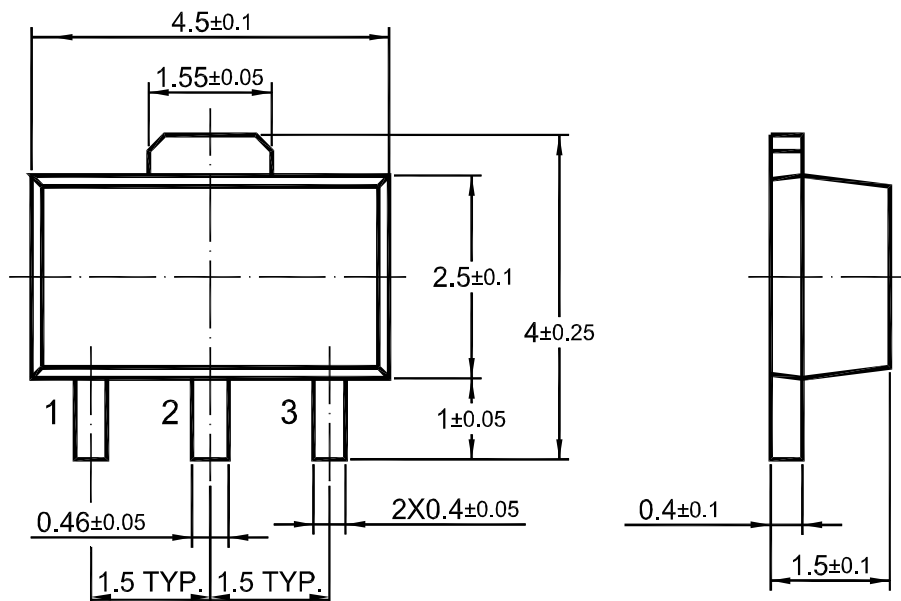
Electrical Characteristics (Ta=25°C unless otherwise specified)

| Parameter | Symbol | Min | Typ | Max | Unit | |
|---|---|------------|-----|-----|---------------|---------------|
| DC Current Gain at $-V_{CE} = 2\text{ V}$, $-I_C = 20\text{ mA}$ | h_{FE} | 30 | - | - | - | |
| at $-V_{CE} = 2\text{ V}$, $-I_C = 1\text{ A}$ Current Gain Group | R | h_{FE} | 60 | - | 120 | - |
| | Q | h_{FE} | 100 | - | 200 | - |
| | P | h_{FE} | 160 | - | 320 | - |
| | E | h_{FE} | 200 | - | 400 | - |
| | Collector Base Cutoff Current at $-V_{CB} = 30\text{ V}$ | $-I_{CBO}$ | - | - | 1 | μA |
| Emitter Base Cutoff Current at $-V_{EB} = 3\text{ V}$ | $-I_{EBO}$ | - | - | 1 | μA | |
| Collector Base Breakdown Voltage at $-I_C = 1\text{ mA}$ | $-V_{(BR)CBO}$ | 40 | - | - | V | |
| Collector Emitter Breakdown Voltage at $-I_C = 1\text{ mA}$ | $-V_{(BR)CEO}$ | 30 | - | - | V | |
| Emitter Base Breakdown Voltage at $-I_E = 1\text{ mA}$ | $-V_{(BR)EBO}$ | 5 | - | - | V | |
| Collector Emitter Saturation Voltage at $-I_C = 2\text{ A}$, $-I_B = 200\text{ mA}$ | $-V_{CE(sat)}$ | - | - | 0.5 | V | |
| Base Emitter Saturation Voltage at $-I_C = 2\text{ A}$, $-I_B = 200\text{ mA}$ | $-V_{BE(sat)}$ | - | - | 2 | V | |
| Current Gain Bandwidth Product at $-V_{CE} = 5\text{ V}$, $-I_C = 100\text{ mA}$ | f_T | - | 80 | - | MHz | |
| Output Capacitance at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$ | C_{ob} | - | 55 | - | pF | |

Package Outline

SOT-89

Unit : mm



Ordering Information

| Device | Package | Shipping |
|----------|---------|----------|
| 2SB772SQ | SOT-89 | 1000PCS |



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