

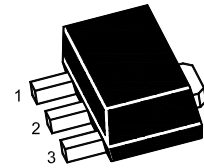


# 2SB772SQ

## Silicon PNP Power Transistor

### Features

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

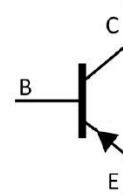


SOT-89

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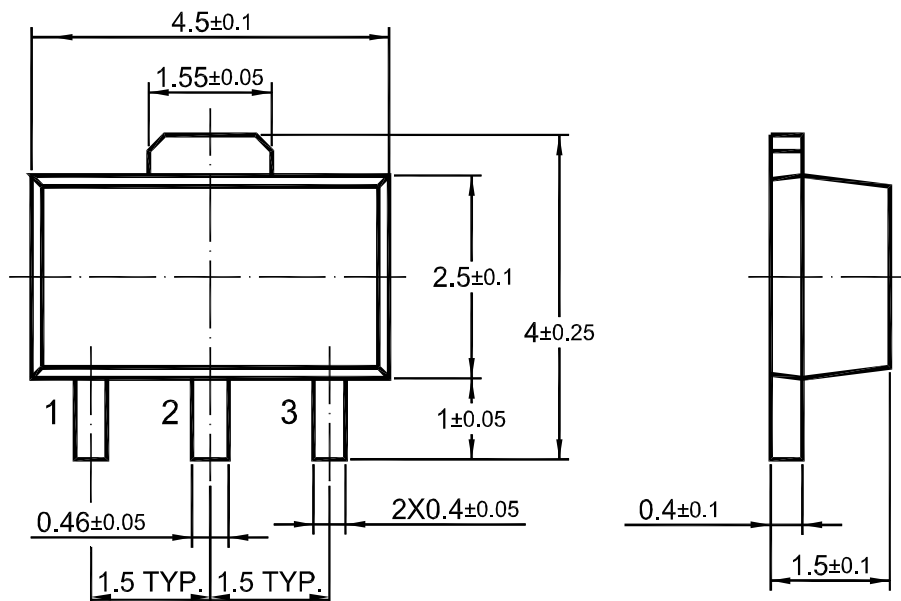
**Electrical Characteristics** (Ta=25°C unless otherwise specified)

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	$\mu\text{A}$
Emitter Base Cutoff Current at $-V_{EB} = 3\text{ V}$	$-I_{EBO}$	-	-	1	$\mu\text{A}$	
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

