

General Description

The 2SB772 is PNP silicon power transistor, designed for audio power amplifier, DC-DC converter and voltage regulator.

Features

- High current output up to 3A
- Low saturation voltage
- RoHS Compliant
- Complement to 2SD882

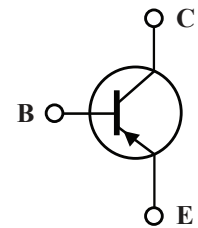
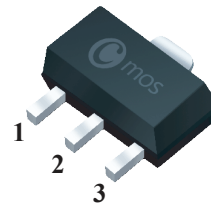
Product Summary

VCBO	VCEO	IC
-40V	-30V	-3A

Applications

- DC-DC converter
- Audio power amplifier

SOT-89 Pin Configuration



SOT-89
(2SB772-E)

Absolute Maximum Ratings(Ta = 25°C)

Symbol	Parameter	Rating	Units
V _{CB0}	Collector to Base Voltage	-40	V
V _{CE0}	Collector to Emitter Voltage	-30	V
V _{EB0}	Emitter-Base Voltage	-6	V
I _C	Collector Current - Continuous	-3	A
P _C	Collector Dissipation	0.5	W
T _{STG}	Storage Temperature Range	-55 to 150	°C
T _J	Junction Temperature	150	°C

Electrical Characteristics ($T_a = 25^\circ\text{C}$, unless otherwise noted)

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V_{CBO}	Collector-base breakdown voltage	$I_C = -100\mu\text{A}$, $I_E = 0$	-40	---	---	V
V_{CEO}	Collector-emitter breakdown voltage	$I_C = -10\text{mA}$, $I_B = 0$	-30	---	---	V
V_{EBO}	Emitter-base breakdown voltage	$I_E = -100\mu\text{A}$, $I_C = 0$	-6	---	---	V
I_{CBO}	Collector cut-off current	$V_{CB} = -40\text{V}$, $I_E = 0$	---	---	-1	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -6\text{V}$, $I_C = 0$	---	---	-1	μA
h_{FE}	DC Current Gain	$I_C = -1\text{A}$, $V_{CE} = -2\text{V}$	60	---	400	---
		$I_C = -100\text{mA}$, $V_{CE} = -2\text{V}$	32	---	---	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -2\text{A}$, $I_B = -0.2\text{A}$	---	---	-0.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -2\text{A}$, $I_B = -0.2\text{A}$	---	---	-1.5	V
f_T	Transition frequency	$I_C = -0.1\text{mA}$, $V_{CE} = -5\text{V}$, $f = 10\text{MHz}$	50	---	---	MHz

Classification of h_{FE}

Type	2SB772-E-R	2SB772-E-Q	2SB772-E-P	2SB772-E-E
Range	60-120	100-200	160-320	200-400

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