

### General Description

The 2SD882 is NPN 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 2SB772

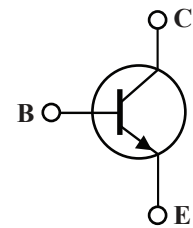
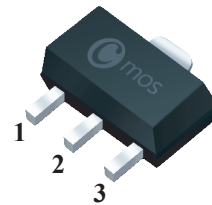
### Product Summary

VCBO	VCEO	IC
40V	30V	3A

### Applications

- DC-DC converter
- Audio power amplifier

### SOT-89 Pin Configuration



SOT-89  
(2SD882-E)

### Absolute Maximum Ratings(Ta = 25°C)

Symbol	Parameter	Rating	Units
V <sub>CB0</sub>	Collector to Base Voltage	40	V
V <sub>CE0</sub>	Collector to Emitter Voltage	30	V
V <sub>EB0</sub>	Emitter-Base Voltage	6	V
I <sub>C</sub>	Collector Current - Continuous	3	A
P <sub>C</sub>	Collector Dissipation	0.5	W
T <sub>STG</sub>	Storage Temperature Range	-55 to 150	°C
T <sub>J</sub>	Junction Temperature	150	°C

**Electrical Characteristics (T<sub>a</sub> =25°C , unless otherwise noted)**

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V <sub>CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =100μA, I <sub>E</sub> =0	40	---	---	V
V <sub>CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =0	30	---	---	V
V <sub>EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =100μA, I <sub>C</sub> =0	6	---	---	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =40V, I <sub>E</sub> =0	---	---	1	μA
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> =30V, I <sub>B</sub> =0	---	---	10	μA
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> =6V, I <sub>C</sub> =0	---	---	1	μA
h <sub>FE</sub>	DC Current Gain	I <sub>C</sub> =1A, V <sub>CE</sub> =2V	60	---	400	---
		I <sub>C</sub> =100mA, V <sub>CE</sub> =2V	32	---	---	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage	I <sub>C</sub> =2A, I <sub>B</sub> =0.2A	---	---	0.5	V
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage	I <sub>C</sub> =2A, I <sub>B</sub> =0.2A	---	---	1.5	V
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =0.1mA, V <sub>CE</sub> =5V, f =10MHz	50	---	---	MHz

**Classification of hfe**

Type	2SD882-E-R	2SD882-E-Q	2SD882-E-P	2SD882-E-E
Range	60-120	100-200	160-320	200-400

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