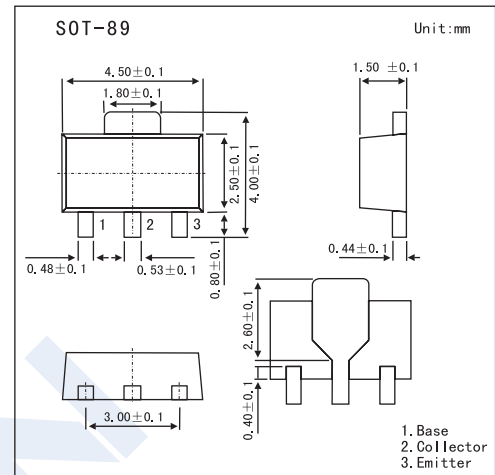


## Power Amplifier Applications

## 2SC2882

## ■ Features

- Suitable for Driver of 30 to 35 Watts Audio Amplifier
- Small Flat Package
- $P_c = 1$  to 2W (mounted on ceramic substrate)
- Complementary to 2SA1202

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	80	V
Collector-Emitter Voltage	$V_{CE0}$	80	V
Emitter-Base Voltage	$V_{EB0}$	5	V
Collector Current	$I_C$	400	mA
Base Current	$I_B$	80	mA
Collector Power Dissipation	$P_C$	500	mW
	$P_{C^*}$	1000	
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$

\* Mounted on a ceramic substrate (250 mm<sup>2</sup> x 0.8 t)

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = 80V, I_E = 0$			0.1	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$			0.1	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}, I_B = 0$	80			V
DC Current Gain	$h_{FE}$	$I_E = 2\text{mA}, I_C = 50\text{mA}$	70		240	
		$V_{CE} = 2V, I_C = 200\text{mA}$	40			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 200\text{mA}, I_B = 20\text{mA}$			0.4	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = 2V, I_C = 5\text{mA}$	0.55		0.8	V
Transition Frequency	$f_T$	$V_{CE} = 10V, I_C = 10\text{mA}$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$		14		pF

## 2SC2882

### hFE Classification

Marking	E	
Rank	O	Y
hFE	70 ~ 140	120 ~ 240

### Electrical Characteristics Curves

