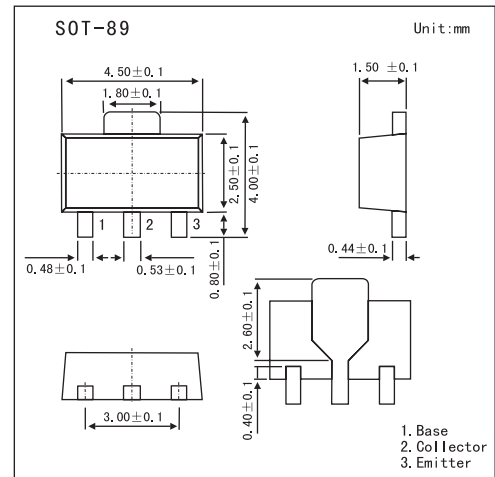


## Audio Frequency Amplifier Applications

## 2SC2884

## ■ Features

- Suitable For Output Stage of 1 Watts Amplifier
- Small Flat Package
- $P_c = 1$  to 2W (mounted on ceramic substrate)
- Complementary to 2SA1204

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	35	V
Collector-Emitter Voltage	$V_{CEO}$	30	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	800	mA
Base Current	$I_B$	160	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	$I_{CBO}$	$V_{CB} = 35V, I_E = 0$			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	$V_{(BR)CEO}$	$I_C = 10\text{mA}, I_B = 0$	30			V
DC Current Gain	$h_{FE}$	$V_{CE} = 1V, I_C = 100\text{mA}$	100		320	
		$V_{CE} = 1V, I_C = 700\text{mA}$	35			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 500\text{mA}, I_B = 20\text{mA}$			0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = 1V, I_C = 10\text{mA}$	0.5		0.8	V
Transition Frequency	$f_T$	$V_{CE} = 5V, I_C = 10\text{mA}$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$		13		pF

## 2SC2884

### hFE Classification

Marking	P	
Rank	O	Y
hFE	100 ~ 200	160 ~ 320

### Electrical Characteristics Curves

