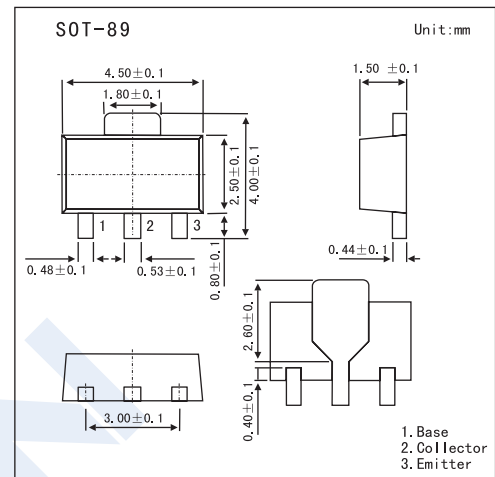


## Audio Frequency Amplifier Applications

## 2SA1204

## ■ Features

- Suitable For Output Stage of 1 Watts Amplifier
- Small Flat Package
- $P_c = 1$  to 2W (mounted on ceramic substrate)
- Complementary to 2SC2884

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	-35	V
Collector-Emitter Voltage	$V_{CE0}$	-30	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_c$	-800	mA
Base Current	$I_B$	-160	mA
Collector Power Dissipation	$P_c$	500	mW
	$P_{c^*}$	1000	
Jumction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature Range	$T_{stg}$	-55 to +150	$^\circ\text{C}$

\* Mounted on ceramic substrate ( $250\text{ mm}^2 \times 0.8\text{ t}$ )

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -35\text{V}$ , $I_E = 0$			-0.1	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5\text{V}$ , $I_C = 0$			-0.1	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = -10\text{mA}$ , $I_B = 0$	-30			V
DC Current Gain	$h_{FE}$	$V_{CE} = -1\text{V}$ , $I_C = -100\text{mA}$	100		320	
		$V_{CE} = -1\text{V}$ , $I_C = -700\text{mA}$	35			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$ , $I_B = -20\text{mA}$			-0.7	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -1\text{V}$ , $I_C = -10\text{mA}$	-0.5		-0.8	V
Transition Frequency	$f_T$	$V_{CE} = -5\text{V}$ , $I_C = -10\text{mA}$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10\text{V}$ , $I_E = 0$ , $f = 1\text{MHz}$		19		pF

# 2SA1204

## hFE Classification

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

## Electrical Characteristics Curves

