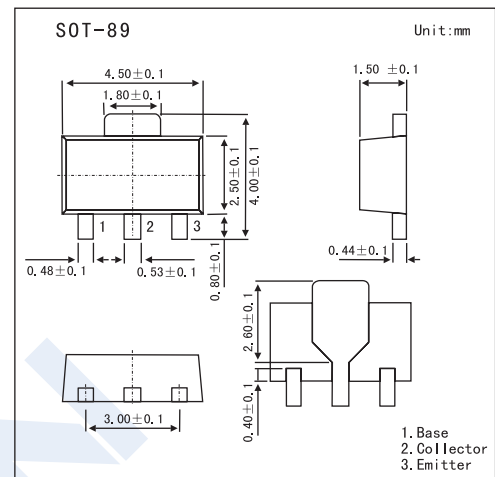


Audio Frequency Amplifier Applications

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 mm² 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	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$			0.1	μA
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

