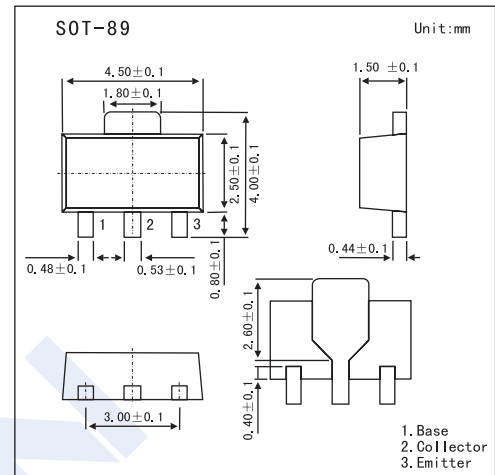


Audio Frequency Amplifier Applications

2SC2883

■ Features

- Suitable For Output Stage of 3 Watts Amplifier
- Small Flat Package
- $P_c = 1$ to 2W (mounted on ceramic substrate)
- Complementary to 2SA1203

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	30	V
Collector-Emitter Voltage	V_{CE0}	30	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_c	1.5	A
Base Current	I_B	0.3	A
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}	$V_{CB} = 30V, I_E = 0$			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
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	5			V
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_C = 500\text{mA}$	100		320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1.5A, I_B = 0.03A$			2	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 2V, I_C = 500\text{mA}$			1	V
Transition Frequency	f_T	$V_{CE} = 2V, I_C = 500\text{mA}$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$			40	pF

2SC2883

hFE Classification

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

Electrical Characteristics Curves

