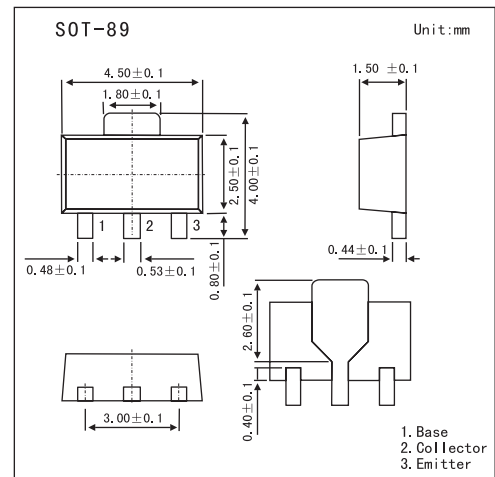


Audio Frequency Amplifier Applications

2SA1203

■ Features

- Suitable For Output Stage of 3 Watts Amplifier
- Small Flat Package
- $P_c = 1$ to 2W (mounted on ceramic substrate)
- Complementary to 2SC2883

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

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

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = -30\text{V}$, $I_E = 0$			-0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}$, $I_C = 0$			-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}	$V_{CE} = -2\text{V}$, $I_C = -500\text{mA}$	100		320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1.5\text{A}$, $I_B = -0.03\text{A}$			-2.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -2\text{V}$, $I_C = -500\text{mA}$			-1.0	V
Transition Frequency	f_T	$V_{CE} = -2\text{V}$, $I_C = -500\text{mA}$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$			50	pF

2SA1203

hFE Classification

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

Electrical Characteristics Curves

