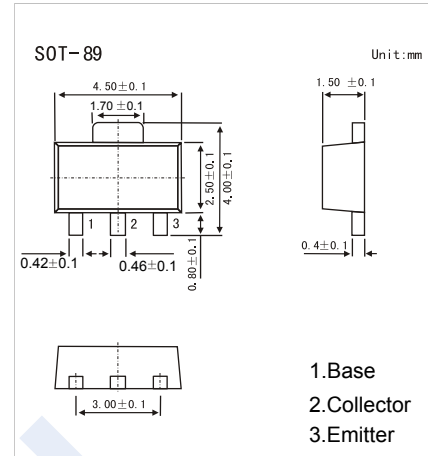


PNP Transistors

2SA1202-HF



■ Features

- Suitable for Driver of 30 to 35 Watts Audio Amplifier
- Small Flat Package
- $P_c = 1$ to 2W (mounted on ceramic substrate)
- Complementary to 2SC2882-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	-80	V
Collector-Emitter Voltage	V_{CE0}	-80	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_c	-400	mA
Base Current	I_b	-80	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 ceramic substrate (250 mm² x 0.8 t)

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_c = -100 \mu\text{A}$, $I_E = 0$	-80			V
Collector- emitter breakdown voltage	V_{CE0}	$I_c = -10 \text{ mA}$, $I_b = 0$	-80			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_c = 0$	-5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = -80 \text{ V}$, $I_E = 0$			-100	nA
Emitter cut-off current	I_{EB0}	$V_{EB} = -5 \text{ V}$, $I_c = 0$			-100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -200 \text{ mA}$, $I_b = -20 \text{ mA}$			-0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = -200 \text{ mA}$, $I_b = -20 \text{ mA}$			-1.2	
Base - emitter voltage	V_{BE}	$I_c = -5 \text{ mA}$, $V_{CE} = -2 \text{ V}$	-0.55		-0.8	
DC current gain	$h_{FE(1)}$	$V_{CE} = -2 \text{ V}$, $I_c = -50 \text{ mA}$	70		240	
	$h_{FE(2)}$	$V_{CE} = -2 \text{ V}$, $I_c = -200 \text{ mA}$	40			
Output capacitance	C_{ob}	$V_{CE} = -10 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$		14		pF
Transition frequency	f_T	$V_{CE} = -10 \text{ V}$, $I_E = -10 \text{ mA}$		120		MHz

■ Classification of $h_{fe(1)}$

Type	2SA1202-O-HF	2SA1202-Y-HF
Range	70-140	120-240
Marking	FO _F	FY _F

PNP Transistors

2SA1202-HF

Typical Characteristics

