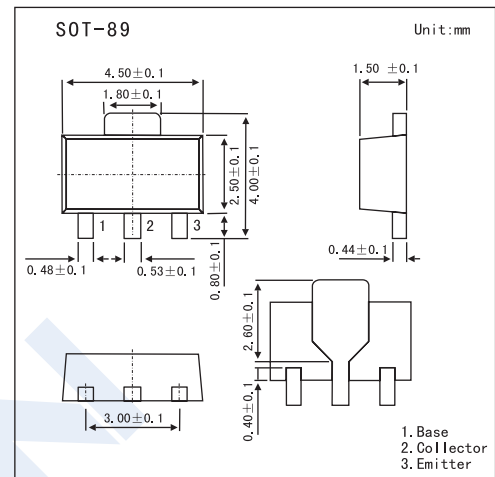


## Voltage Amplifier Applications

## 2SA1201

## ■ Features

- High Voltage :  $V_{CE0} = -120V$
- High Transition Frequency :  $f_T = 120MHz$ (typ.)
- Small Flat Package
- Complementary to 2SC2881

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

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	$V_{CE0}$	-120	V
Collector-Base Voltage	$V_{CB0}$	-120	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
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

■ Electrical Characteristics  $T_a = 25^\circ C$ 

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	$\mu A$
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -120V, I_E = 0$			-0.1	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = -10mA, I_B = 0$	-120			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -1mA, I_C = 0$	-5			V
DC Current Gain	$h_{FE}$	$V_{CE} = -5V, I_C = -100mA$	80		240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$			-1.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -5V, I_C = -500mA$			-1.0	V
Transtion Frequency	$f_T$	$V_{CE} = -5V, I_C = -100mA$		120		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$			30	pF

# 2SA1201

## hFE Classification

Marking	D	
Rank	O	Y
hFE	80~160	120~240

## Electrical Characteristics Curves

