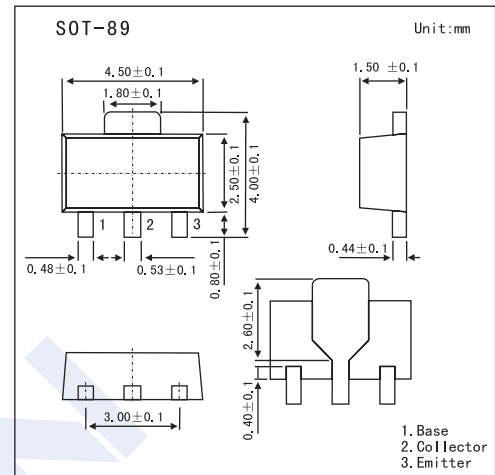


## Voltage Amplifier Applications

## 2SC2881

## ■ Features

- High Voltage :  $V_{CE0} = 120V$
- High Transition Frequency :  $f_T = 120MHz$ (typ.)
- Small Flat Package
- Complementary to 2SA1201

■ 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
	$P_C^*$	1000	
Jumction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

\* Mounted on a ceramic substrate (250 mm<sup>2</sup> x 0.8 t)

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

Parameter	Symbol	Testconditons	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	$V_{(BR)CEO}$	$I_C = 10mA, I_B = 0$	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	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = 5V, I_C = 500mA$			1	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

# 2SC2881

## hFE Classification

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

## Electrical Characteristics Curves

