

Voltage Amplifier Applications

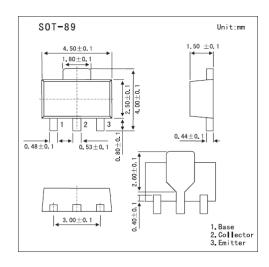
Features

• High Voltage : $V_{CEO} = 120V$

• High Transition Frequency : fr = 120MHz(typ.)

• Small Flat Package

• Complementary to 2SA1201



Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit	
Collector-Emitter Voltage	Vceo	120	V	
Collector-Base Voltage	Vсво	120	V	
Emitter-Base Voltage	VEBO	5	V	
Collector Current	lc	800	mA	
Base Current	lв	160	mA	
Collector Power Dissipation	Pc	500	mW	
	Pc*	1000		
Jumction temperature	Tj	150	$^{\circ}$ C	
Storage temperature	Tstg	-55 to +150	$^{\circ}$ C	

^{*} Mounted on a ceramic substrate (250 mm2 x 0.8 t)

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Тур	Max	Unit
Emitter Cut-off Current	lebo	VEB = 5V , IC = 0			0.1	μА
Collector Cut-off Current	Ісво	Vсв = 120V , IE = 0			0.1	μА
Collector-Emitter Breakdown Voltage	V(BR)CEO	lc = 10mA , lв = 0	120			V
Emitter-Base Breakdown Voltage	V(BR)EBO	IE = 1mA , Ic = 0	5			V
DC Current Gain	hFE	Vce = 5V , Ic = 100mA	80		240	
Collector-Emitter Saturation Voltage	VCE(sat)	Ic = 500mA , Iв = 50mA			1	V
Base-Emitter Voltage	VBE	Vce = 5V , Ic = 500mA			1	V
Transtion Frequency	fr	Vce = 5V , lc = 100mA		120		MHz
Collector Output Capacitance	Cob	Vсв = 10V , IE = 0 , f = 1МНz	_		30	pF

REV.08 1 of 2



hFE Classification

Marking	С		
Rank	0	Υ	
hFE	80~160	120~240	

Electrical Characteristics Curves

