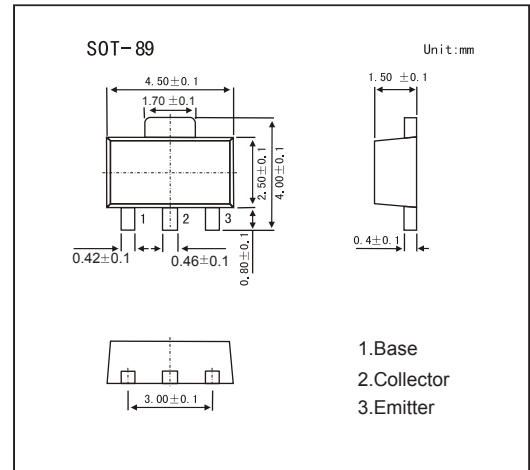


**SOT-89 Plastic-Encapsulate Transistors**
**FEATURES**

- High voltage:  $V_{CEO}=160V$
- Large continuous collector current
- NPN Transistors

**MECHANICAL DATA**

- Case style:SOT-89 molded plastic
- Mounting position:any


**MAXIMUM RATINGS AND CHARACTERISTICS**

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CBO}$	160	V
Collector - Emitter Voltage	$V_{CEO}$	160	
Emitter - Base Voltage	$V_{EBO}$	6	
Collector Current - Continuous	$I_C$	1	A
Collector Power Dissipation	$P_C$	0.5	W
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{stg}$	-55 to 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	$V_{CBO}$	$I_C=100\mu A, I_E=0$	160			V
Collector- emitter breakdown voltage	$V_{CEO}$	$I_C=10mA, I_B=0$	160			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E=100\mu A, I_C=0$	6			
Collector-base cut-off current	$I_{CBO}$	$V_{CB}=150V, I_E=0$			1	uA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=6V, I_C=0$			1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$			1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C=500mA, I_B=50mA$			1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE}=5V, I_C=5mA$	0.45		0.75	
DC current gain	$h_{FE}$	$V_{CE}=6V, I_C=200mA$	100		320	
Collector output capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$			20	pF
Transition frequency	$f_T$	$V_{CE}=5V, I_C=200mA$	20			MHz

RATINGS AND CHARACTERISTIC CURVES

