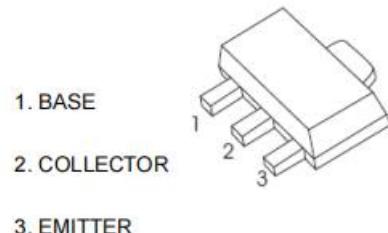


**SOT-89-3L Bipolar Transistor 双极型三极管****■Features 特点****NPN High Voltage 高压****■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Collector-Base Voltage 集电极基极电压	V <sub>CBO</sub>	400	V
Collector-Emitter Voltage 集电极发射极电压	V <sub>CEO</sub>	400	V
Emitter-Base Voltage 发射极基极电压	V <sub>EBO</sub>	5	V
Collector Current 集电极电流	I <sub>C</sub>	200	mA
Power dissipation 耗散功率	P <sub>C</sub> (T <sub>a</sub> =25°C)	500	mW
Thermal Resistance Junction-Ambient 热阻	R <sub>θJA</sub>	250	°C/W
Junction and Storage Temperature 结温和储藏温度	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150°C	

**■Device Marking 产品打标**

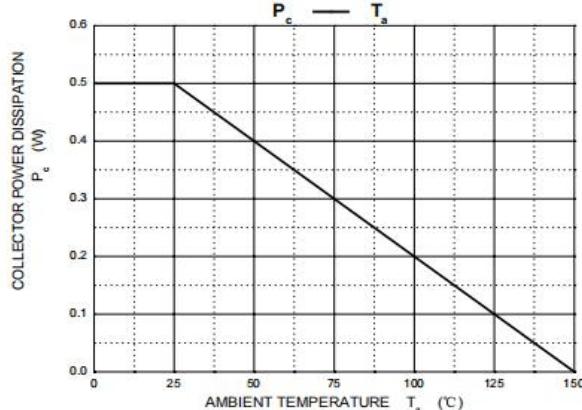
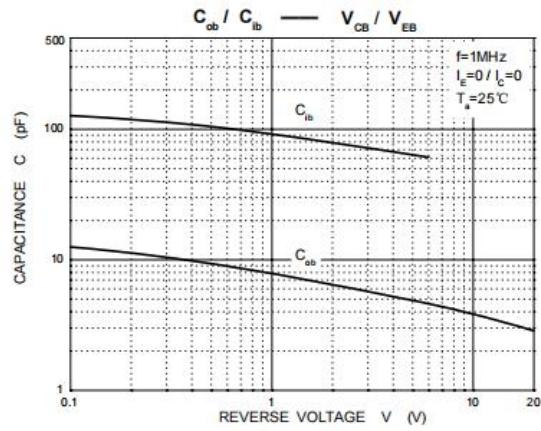
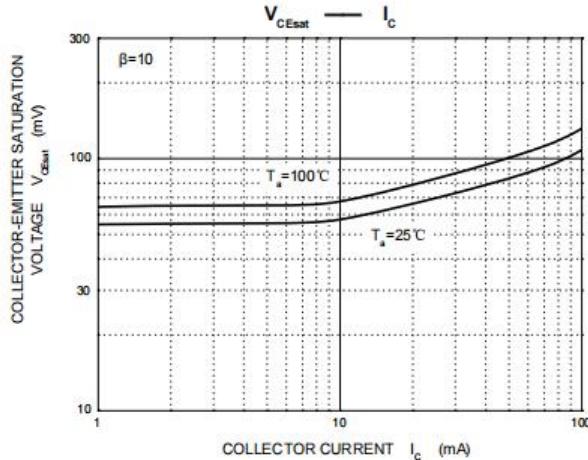
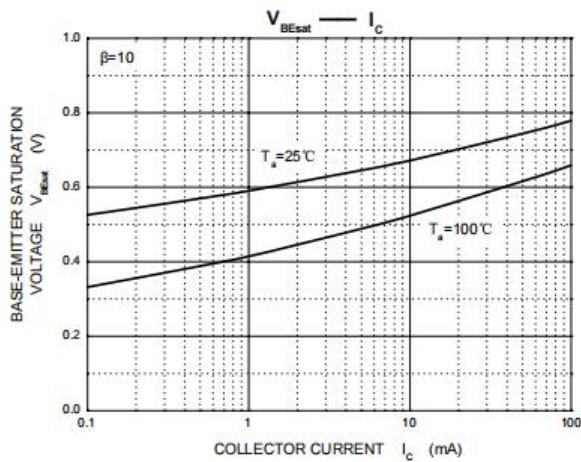
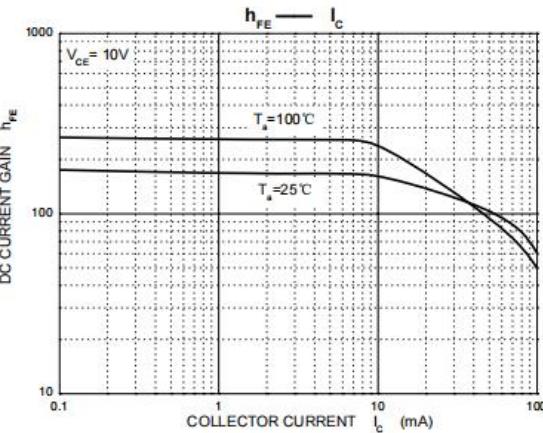
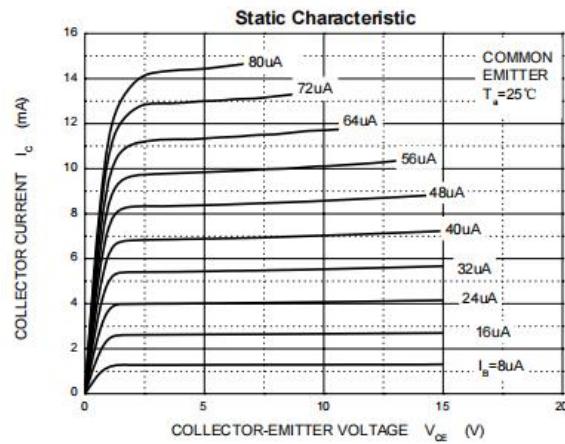
A44=A44

**■ Electrical Characteristics 电特性**

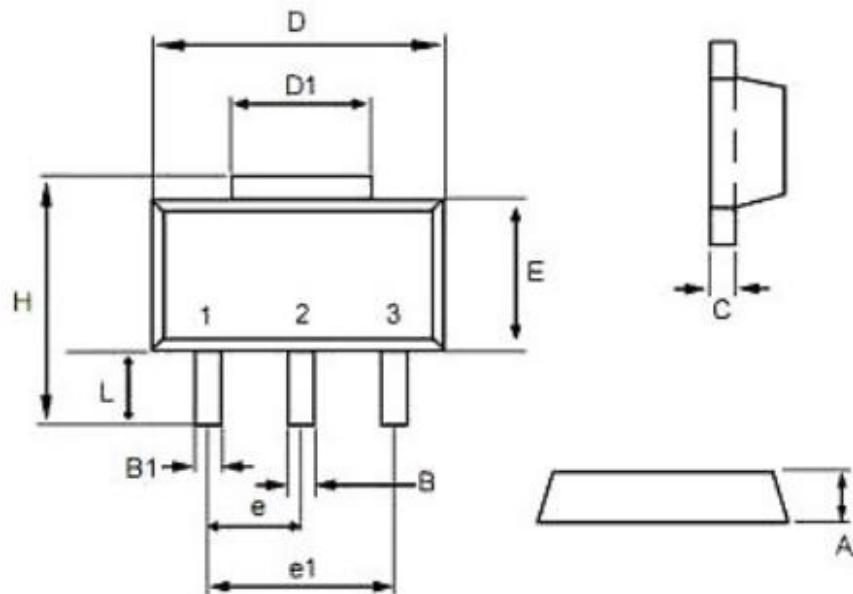
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector-Base Breakdown Voltage 集电极基极击穿电压(I <sub>C</sub> = 100μA, I <sub>E</sub> =0)	BV <sub>CBO</sub>	400	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压(I <sub>C</sub> = 1mA, I <sub>B</sub> =0)	BV <sub>CEO</sub>	400	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压(I <sub>E</sub> = 100μA, I <sub>C</sub> =0)	BV <sub>EBO</sub>	5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流(V <sub>CB</sub> = 400V, I <sub>E</sub> =0)	I <sub>CBO</sub>	—	—	100	nA
Collector-Emitter Leakage Current 集电极发射极漏电流(V <sub>CE</sub> = 400V, I <sub>B</sub> =0)	I <sub>CEO</sub>	—	—	5	μA
Emitter-Base Leakage Current 发射极基极漏电流(V <sub>EB</sub> = 5V, I <sub>C</sub> =0)	I <sub>EBO</sub>	—	—	100	nA
DC Current Gain 直流电流增益(V <sub>CE</sub> = 10V, I <sub>C</sub> = 1mA)	H <sub>FE</sub> (1)	70	—	—	
DC Current Gain 直流电流增益(V <sub>CE</sub> = 10V, I <sub>C</sub> = 10mA)	H <sub>FE</sub> (2)	100	—	200	
DC Current Gain 直流电流增益(V <sub>CE</sub> = 10V, I <sub>C</sub> = 50mA)	H <sub>FE</sub> (3)	40	—	—	
DC Current Gain 直流电流增益(V <sub>CE</sub> = 10V, I <sub>C</sub> = 100mA)	H <sub>FE</sub> (4)	40	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降(I <sub>C</sub> = 10mA, I <sub>B</sub> = 1mA) (I <sub>C</sub> = 50mA, I <sub>B</sub> = 5mA)	V <sub>CE(sat)</sub>	—	—	0.2 0.3	V
Base-Emitter Saturation Voltage 基极发射极饱和压降(I <sub>C</sub> = 10mA, I <sub>B</sub> = 1mA)	V <sub>BE(sat)</sub>	—	—	0.75	V
Transition Frequency 特征频率(V <sub>CE</sub> = 20V, I <sub>C</sub> = 10mA)	f <sub>T</sub>	50	—	—	MHz
Output Capacitance 输出电容(V <sub>CB</sub> = 20V, I <sub>E</sub> =0, f=1MHz)	C <sub>ob</sub>	—	6	—	pF

■Typical Characteristic Curve 典型特性曲线



## ■ Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.40	1.60	0.055	0.063
B	0.40	0.56	0.016	0.022
B1	0.35	0.48	0.014	0.019
C	0.35	0.44	0.014	0.017
D	4.40	4.60	0.173	0.181
D1	1.35	1.83	0.053	0.072
e	1.45	1.55	0.057	0.061
e1	2.95	3.05	0.116	0.120
E	2.29	2.60	0.090	0.102
H	3.75	4.25	0.148	0.167
L	0.80	1.20	0.031	0.047