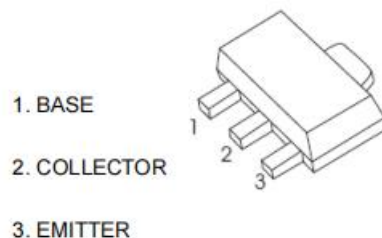


Features 特点
SOT-89

NPN General Purpose 通用


Absolute Maximum Ratings 最大额定值

Characteristic 特性参数	Symbol 符号	BCX56-16,115-CN	Unit 单位
Collector-Base Voltage 集电极基极电压	V_{CBO}	100	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	80	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	5	V
Collector Current 集电极电流	I_C	1000	mA
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}\text{C})$	500	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	250	$^{\circ}\text{C}/\text{W}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55 to +150 $^{\circ}\text{C}$	

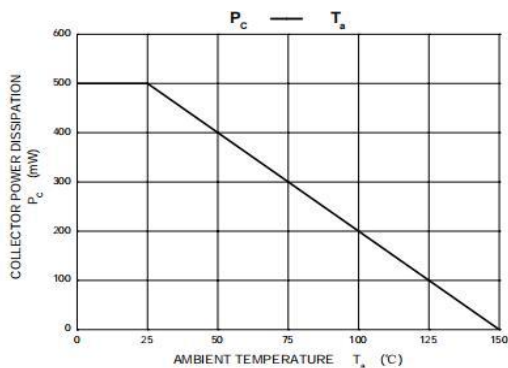
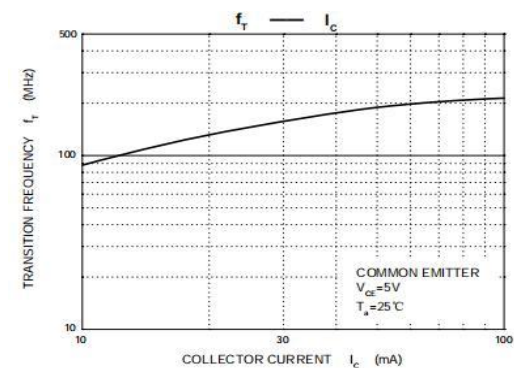
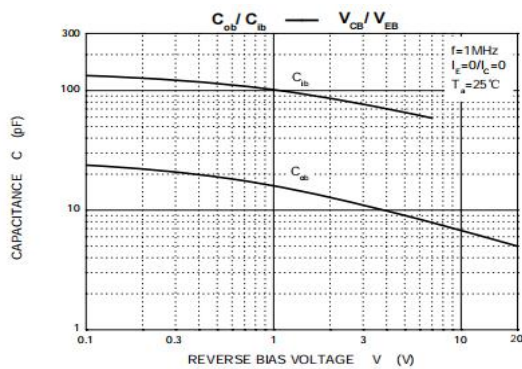
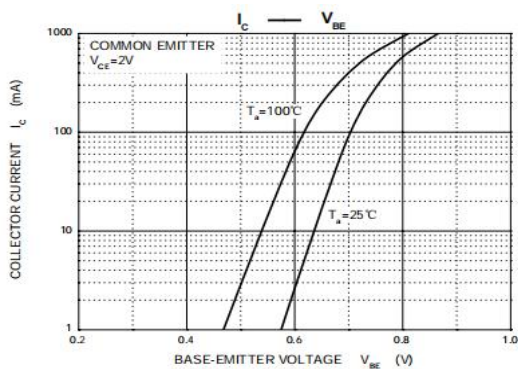
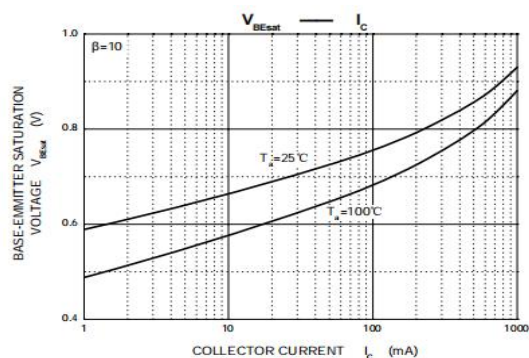
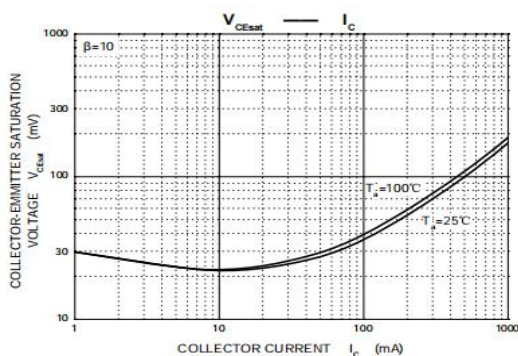
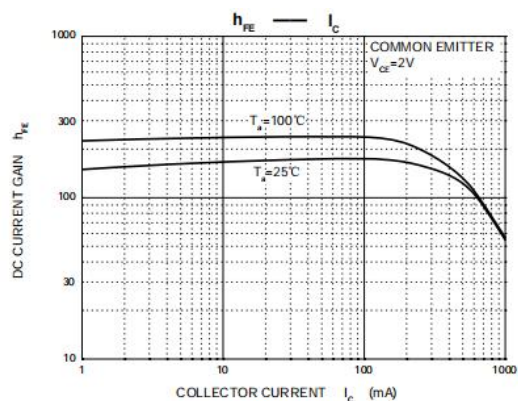
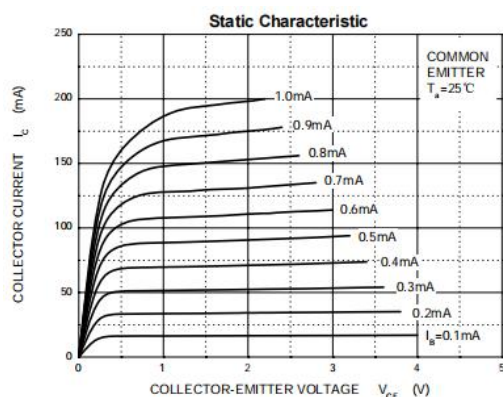
Device Marking 产品打标

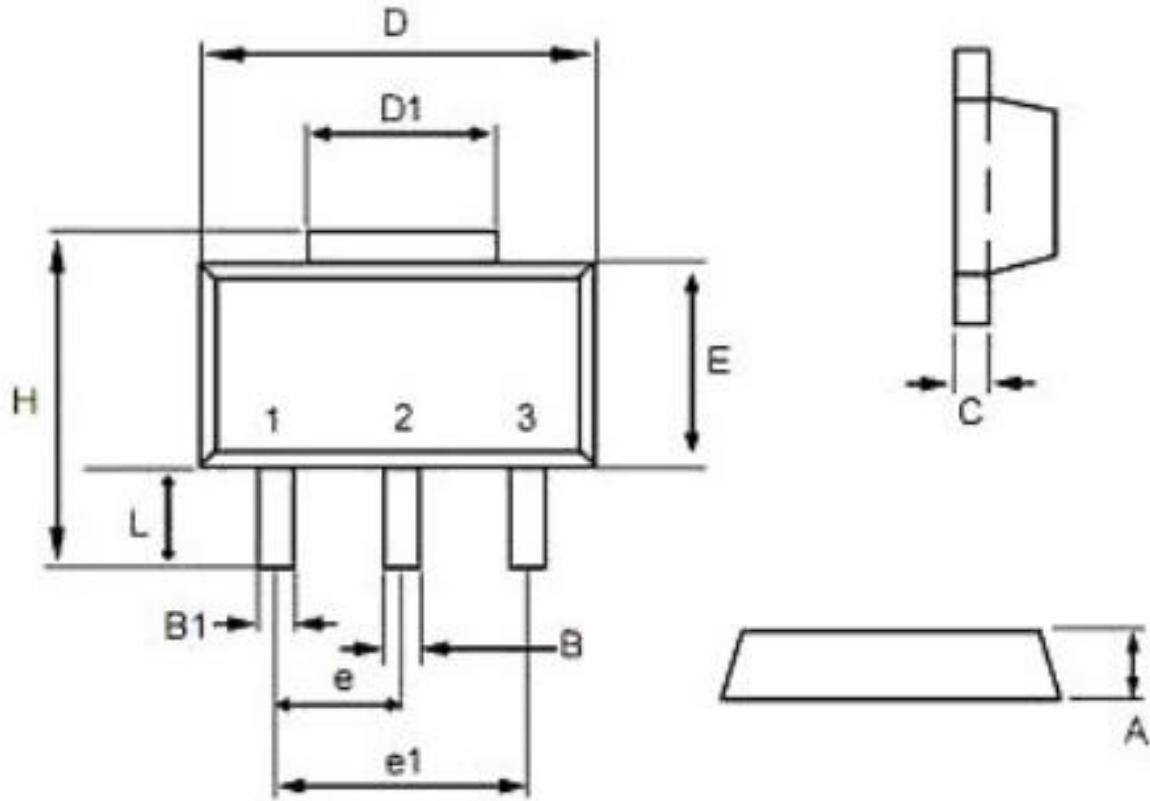
$H_{FE}(2)$	100-250
Mark	BL

Electrical Characteristics 电特性

($T_A=25^{\circ}\text{C}$ 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 ($I_C=100\mu\text{A}$, $I_E=0$)	BV_{CBO}	100	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 ($I_C=10\text{mA}$, $I_B=0$)	BV_{CEO}	80	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压($I_E=100\mu\text{A}$, $I_C=0$)	BV_{EBO}	5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流($V_{CB}=80\text{V}$, $I_E=0$)	I_{CBO}	—	—	100	nA
Emitter-Base Leakage Current 发射极基极漏电流($V_{EB}=5\text{V}$, $I_C=0$)	I_{EBO}	—	—	100	nA
DC Current Gain 直流电流增益($V_{CE}=2\text{V}$, $I_C=5\text{mA}$)	$H_{FE(1)}$	40	—	—	
DC Current Gain 直流电流增益 ($V_{CE}=2\text{V}$, $I_C=0.15\text{A}$)	$H_{FE(2)}$	100	—	250	
DC Current Gain 直流电流增益($V_{CE}=2\text{V}$, $I_C=0.5\text{A}$)	$H_{FE(3)}$	25	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降($I_C=0.5\text{A}$, $I_B=50\text{mA}$)	$V_{CE(sat)}$	—	—	0.5	V
Base-Emitter Saturation Voltage 基极发射极饱和压降($I_C=500\text{mA}$, $I_B=50\text{mA}$)	$V_{BE(sat)}$	—	—	1	V
Base-Emitter On Voltage 基极发射极导通电压($V_{CE}=2\text{V}$, $I_C=0.5\text{A}$)	$V_{BE(on)}$	—	—	1	V
Transition Frequency 特征频率($V_{CE}=5\text{V}$, $I_C=10\text{mA}$)	f_T	—	130	—	MHz
Output Capacitance 输出电容($V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$)	C_{ob}	—	15	—	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

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