2SA733

TO-92 Bipolar Transistor 双极型三极管

TO-92

1.EMITTER
2.COLLECTOR
3.BASE

■Features 特点

PNP General Purpose 通用

■Absolute Maximum Ratings 最大额定值

Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Collector-Base Voltage 集电极基极电压	V_{CBO}	-60	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	-50	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	-5	V
Collector Current 集电极电流	I_C	-100	mA
Power dissipation 耗散功率	$P_C(T_a=25℃)$	250	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\Theta JA}$	500	℃/W
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150℃	

■Device Rank 产品分档

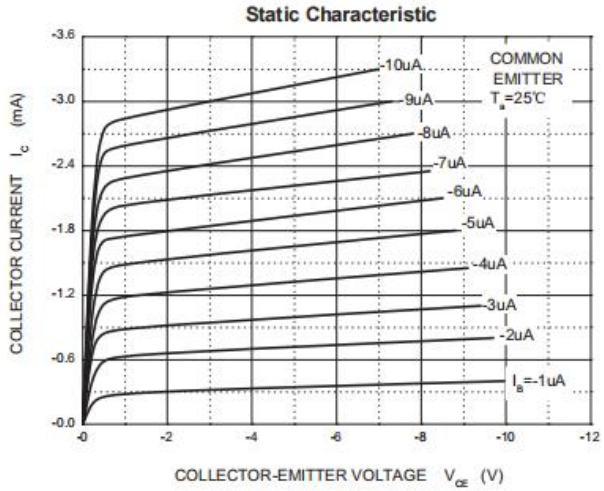
Rank 档位	R	Q	P	K
H_{FE} Range	90-180	135-270	200-400	300-600

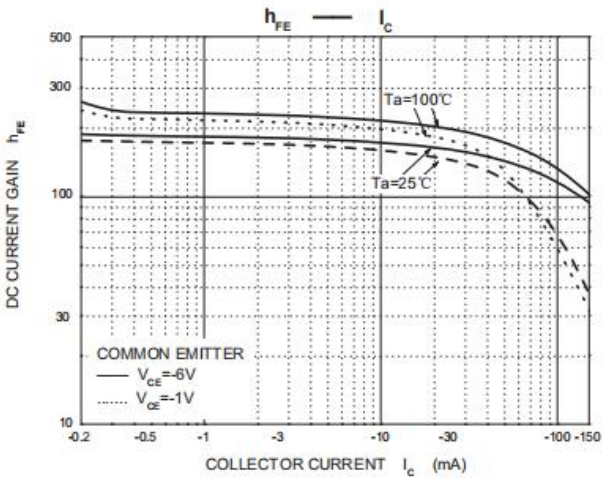
■Electrical Characteristics 电特性

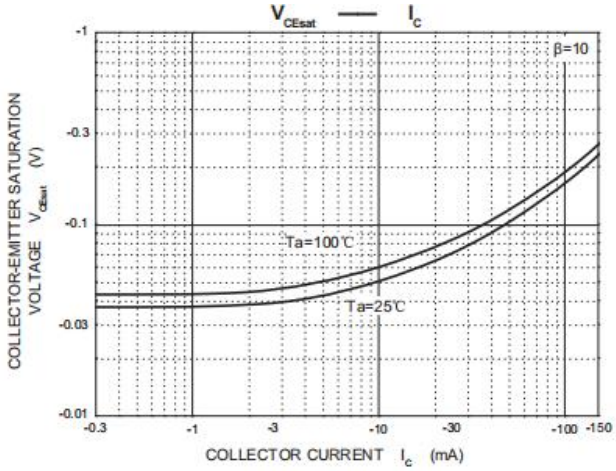
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

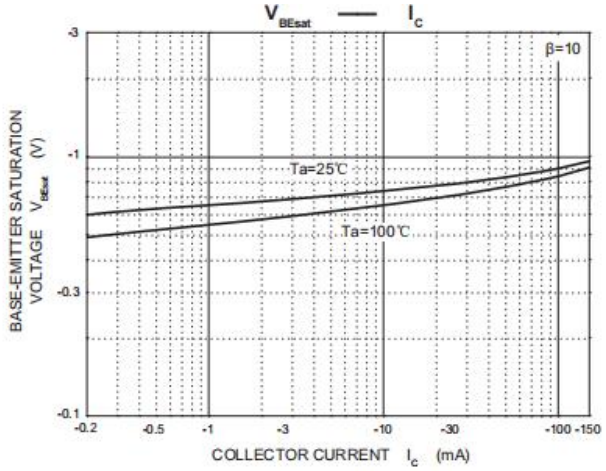
Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector-Base Breakdown Voltage 集电极基极击穿电压 (I_C= -100uA，I_E=0)	BV_{CBO}	-60	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 (I_C= -1mA，I_B=0)	BV_{CEO}	-50	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压 (I_E= -100uA，I_C=0)	BV_{EBO}	-5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流 (V_{CB}= -60V，I_E=0)	I_{CBO}	—	—	-100	nA
Emitter-Base Leakage Current 发射极基极漏电流 (V_{EB}= -5V，I_C=0)	I_{EBO}	—	—	-100	nA
DC Current Gain 直流电流增益 (V_{CE}= -6V，I_C= -1mA)	H_{FE}	90	—	600	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 (I_C= -100mA，I_B= -10mA)	$V_{CE(sat)}$	—	—	-0.3	V
Base-Emitter Saturation Voltage 基极发射极饱和压降 (I_C= -100mA，I_B= -10mA)	$V_{BE(sat)}$	—	—	-1.1	V
Transition Frequency 特征频率 (V_{CE}= -6V，I_C= -10mA)	f_T	100	—	—	MH_Z
Noise Figure 噪声系数 (V_{CE}= -6V，I_C= -0.3mA, f=1KH_Z)	NF	—	—	20	dB
Output Capacitance 输出电容 (V_{CB}= -10V，I_E=0, f=1MH_Z)	C_{ob}	—	—	6	pF

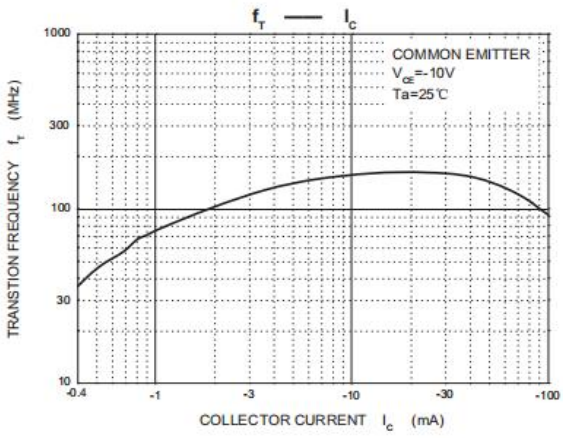
■Typical Characteristic Curve 典型特性曲线

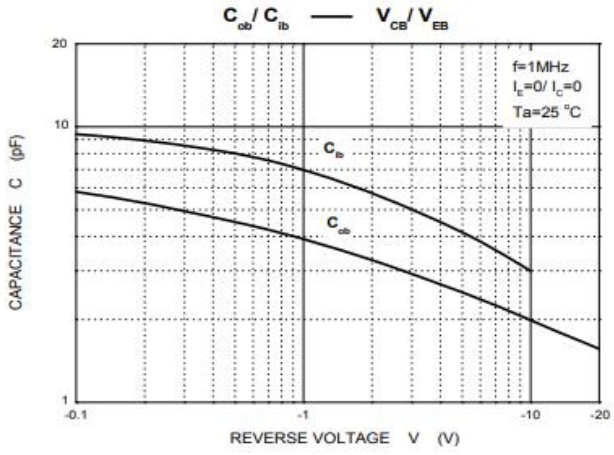




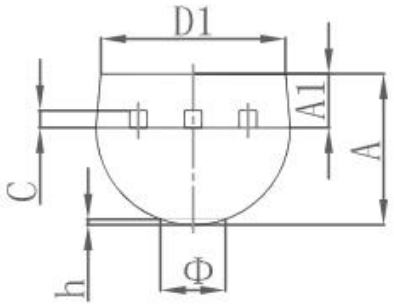


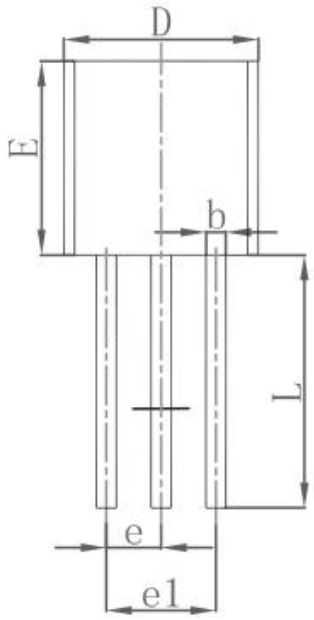






■**Dimension 外形封装尺寸**





Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.300	4.700	0.169	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015