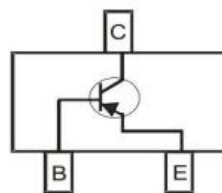


SOT-23 Bipolar Transistor 双极型三极管

■ Features 特点

PNP General Purpose 通用



■ Absolute Maximum Ratings 最大额定值

Characteristic 特性参数	Symbol 符号	BC856 A/B/C	BC857 A/B/C	BC858 A/B/C	Unit 单位
Collector-Base Voltage 集电极基极电压	V_{CBO}	-80	-50	-30	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	-65	-45	-30	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	-5	-5	-5	V
Collector Current 集电极电流	I_C	-100			mA
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}C)$	200			mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	625			$^{\circ}C/W$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150 $^{\circ}C$			

■ Device Marking 产品打标

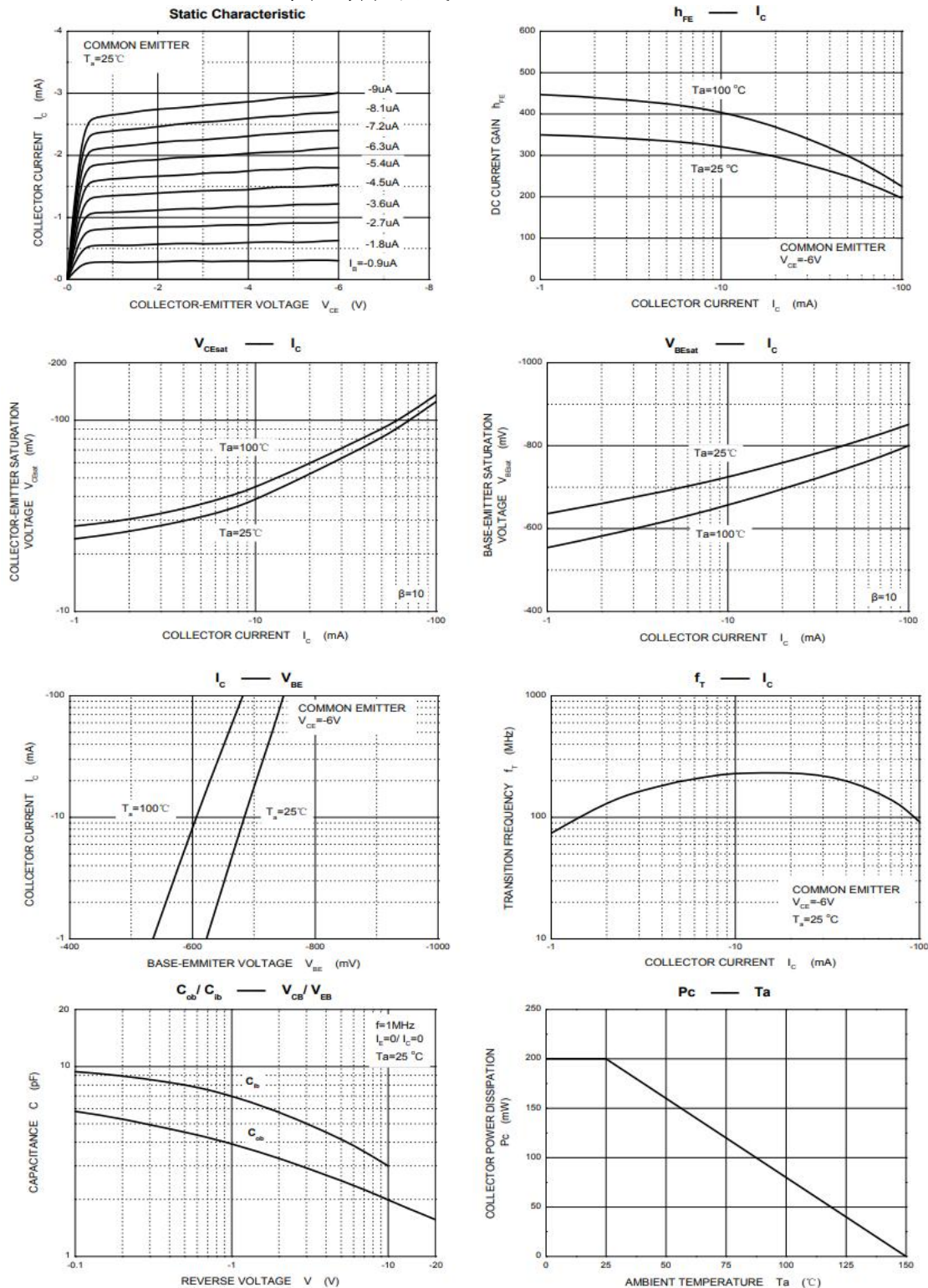
H_{FE}		125-250(A)	220-475(B)	420-800(C)
Mark	BC856	3A	3B	3C
	BC857	3E	3F	3G
	BC858	3J	3K	3L

■Electrical Characteristics 电特性

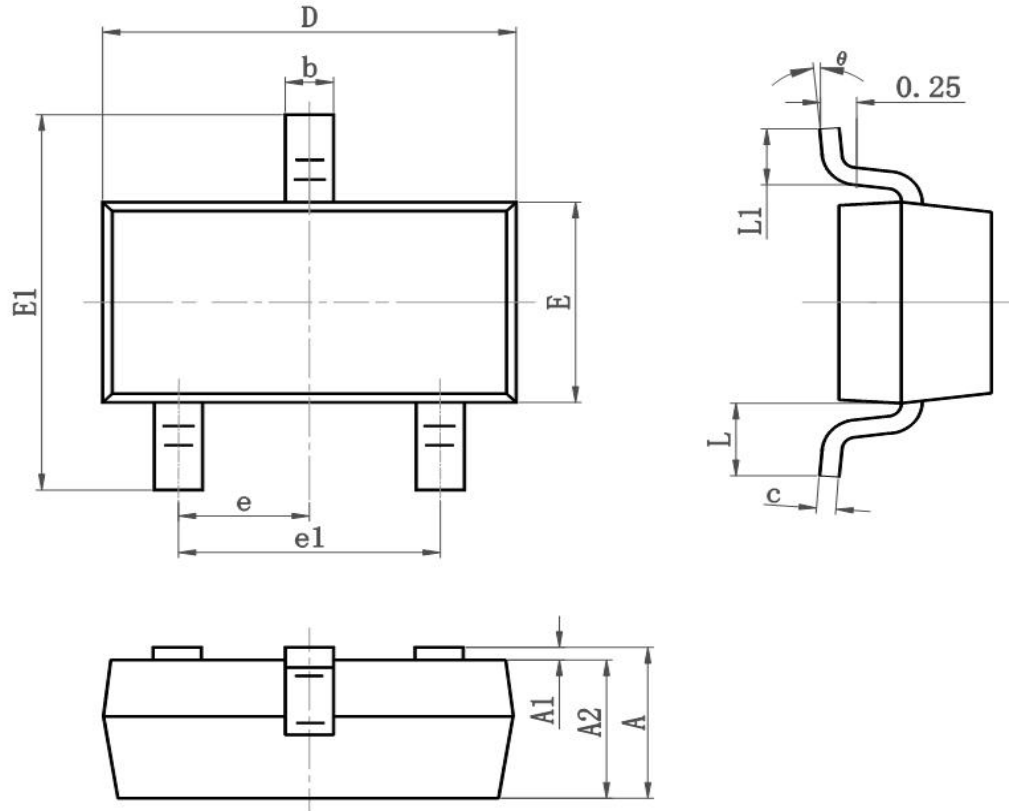
(TA=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

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 (IC= -10uA, IE=0)	BC856A/B/C BC857A/B/C BC858A/B/C	BV _{CBO}	-80 -50 -30	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 (IC= -10mA, IB=0)	BC856A/B/C BC857A/B/C BC858A/B/C	BV _{CEO}	-65 -45 -30	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压 (IE= -10uA, IC=0)		BV _{EBO}	-5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流	BC856A/B/C(V _{CB} =-70V,IE=0) BC857A/B/C(V _{CB} =-50V,IE=0) BC858A/B/C(V _{CB} =-30V,IE=0)	IC _{BO}	—	—	-100	nA
Emitter-Base Leakage Current 发射极基极漏电流 (V _{EB} = -5V, IC=0)		IE _{BO}	—	—	-100	nA
DC Current Gain 直流电流增益 (V _{CE} =-5V,IC=-2mA)	BC856A/BC857A/BC858A BC856B/BC857B/BC858B BC856C/BC857C/BC858C	H _{FE}	125 220 420	185 295 610	250 475 800	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 (IC= -100mA, IB= -5mA)		V _{CE(sat)}	—	—	-0.5	V
Base-Emitter Saturation Voltage 基极发射极饱和压降 (IC= -100mA, IB= -5mA)		V _{BE(sat)}	—	—	-1.1	V
Transition Frequency 特征频率 (V _{CE} = -5V, IC= -10mA)		f _T	100	—	—	MHz
Output Capacitance 输出电容 (V _{CB} = -10V, IE=0, f=1MHz)		C _{ob}	—	4.5	—	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	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°