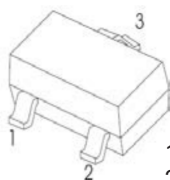
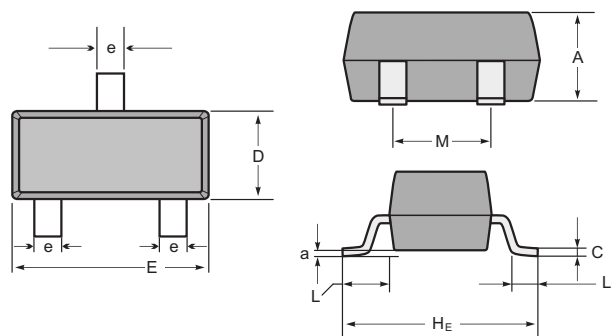


■Features 特点

PNP General Purpose 通用



1.BASE
2.EMITTER
3.COLLECTOR



SOT-23 mechanical data

UNIT		A	C	D	E	H _E	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

■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℃)	200			mW
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	625			℃/W
Junction and Storage Temperature 结温和储藏温度	T _J , T _{stg}	-55to+150℃			

BC856A\B\C

BC857A\B\C

BC858A\B\C

■Electrical Characteristics 电特性

(T_A=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 _C = -10uA, I _E =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 (I _C = -10mA, I _B =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 (I _E = -10uA, I _C =0)		BV _{EBO}	-5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流	BC856A/B/C(V _{CB} =-70V,I _E =0) BC857A/B/C(V _{CB} =-50V,I _E =0) BC858A/B/C(V _{CB} =-30V,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} =-5V,I _C =-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 (I _C = -100mA, I _B = -5mA)		V _{CE(sat)}	—	—	-0.5	V
Base-Emitter Saturation Voltage 基极发射极饱和压降 (I _C = -100mA, I _B = -5mA)		V _{BE(sat)}	—	—	-1.1	V
Transition Frequency 特征频率 (V _{CE} = -5V, I _C = -10mA)		f _T	100	—	—	MHz
Output Capacitance 输出电容 (V _{CB} = -10V, I _E =0, f=1MHz)		C _{ob}	—	4.5	—	pF

RATING AND CHARACTERISTIC CURVES (BC856 THRU BC858)

