



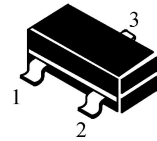
SOT-23 Bipolar Transistor 双极型三极管

■ Features 特点

NPN High Voltage 高压

SOT-23

- 1. BASE
- 2. EMITTER
- 3. COLLECTOR



■ 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}	400	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	400	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	6	V
Collector Current 集电极电流	I_C	200	mA
Power dissipation 耗散功率	$P_C(T_a=25^\circ\text{C})$	350	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150 $^\circ\text{C}$	

■ Device Marking 产品打标

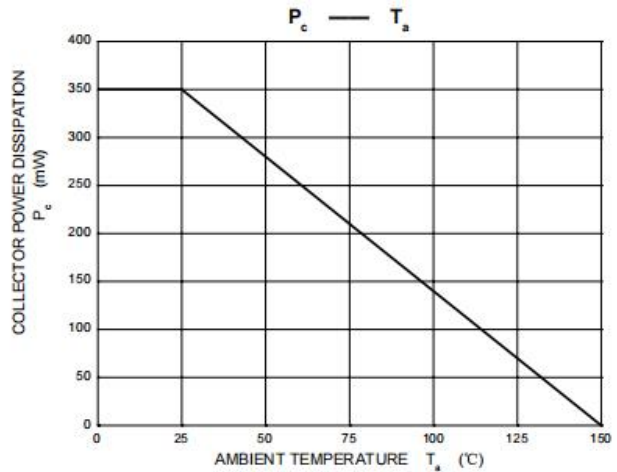
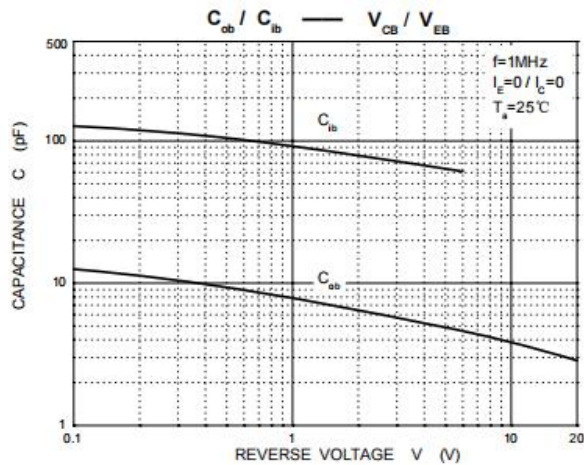
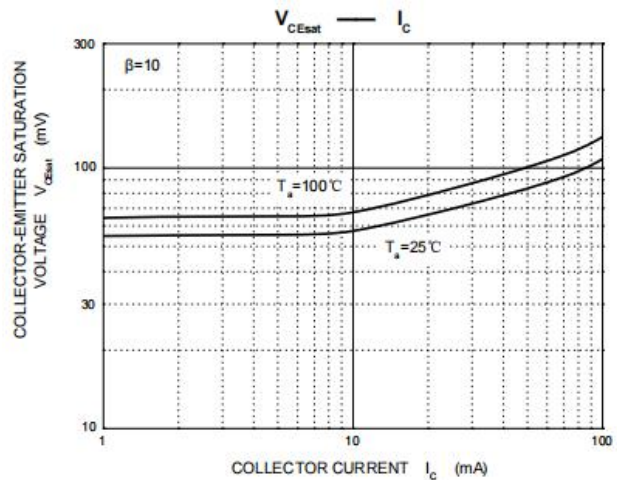
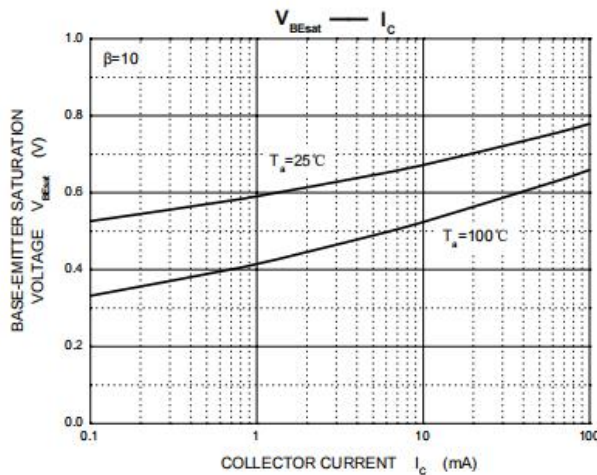
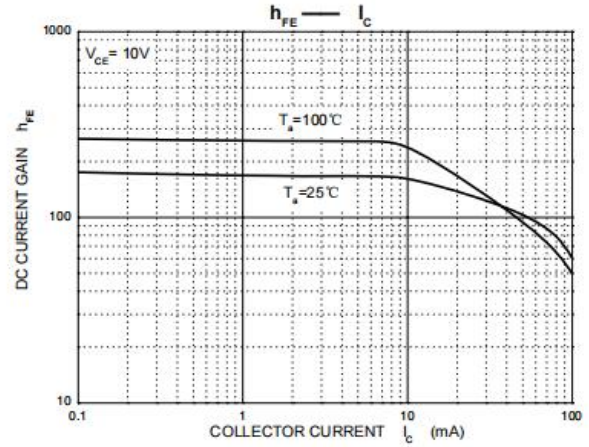
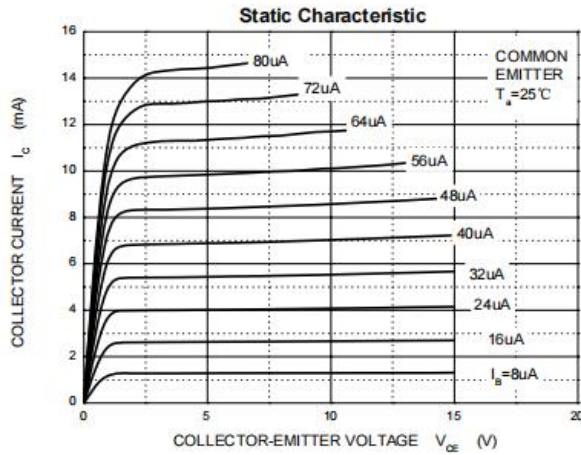
MMBTA44=3D

**■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 _C =100μA, I _E =0)	BV _{CBO}	400	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压(I _C =1mA, I _B =0)	BV _{CEO}	400	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压(I _E =10μA, I _C =0)	BV _{EBO}	6	—	—	V
Collector-Base Leakage Current 集电极基极漏电流(V _{CB} =400V, I _E =0)	I _{CBO}	—	—	100	nA
Collector-Emitter Leakage Current 集电极发射极漏电流(V _{CE} =300V, I _B =0)	I _{CEO}	—	—	100	nA
Emitter-Base Leakage Current 发射极基极漏电流(V _{EB} =6V, I _C =0)	I _{EBO}	—	—	100	nA
DC Current Gain 直流电流增益(V _{CE} =10V, I _C =1mA)	H _{FE} (1)	40	—	—	
DC Current Gain 直流电流增益(V _{CE} =10V, I _C =10mA)	H _{FE} (2)	50	—	200	
DC Current Gain 直流电流增益(V _{CE} =10V, I _C =50mA)	H _{FE} (3)	45	—	—	
DC Current Gain 直流电流增益(V _{CE} =10V, I _C =100mA)	H _{FE} (4)	40	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降(I _C =1mA, I _B =0.1mA) (I _C =10mA, I _B =1mA) (I _C =50mA, I _B =5mA)	V _{CE(sat)}	—	—	0.4 0.5 0.75	V
Base-Emitter Saturation Voltage 基极发射极饱和压降(I _C =10mA, I _B =1mA)	V _{BE(sat)}	—	—	0.75	V
Transition Frequency 特征频率(V _{CE} =20V, I _C =10mA)	f _T	50	—	—	MHz
Input Capacitance 输入电容(V _{CB} =20V, I _E =0, f=1MHz)	C _{ib}	—	130	—	pF
Output Capacitance 输出电容(V _{CB} =20V, I _E =0, f=1MHz)	C _{ob}	—	7	—	pF

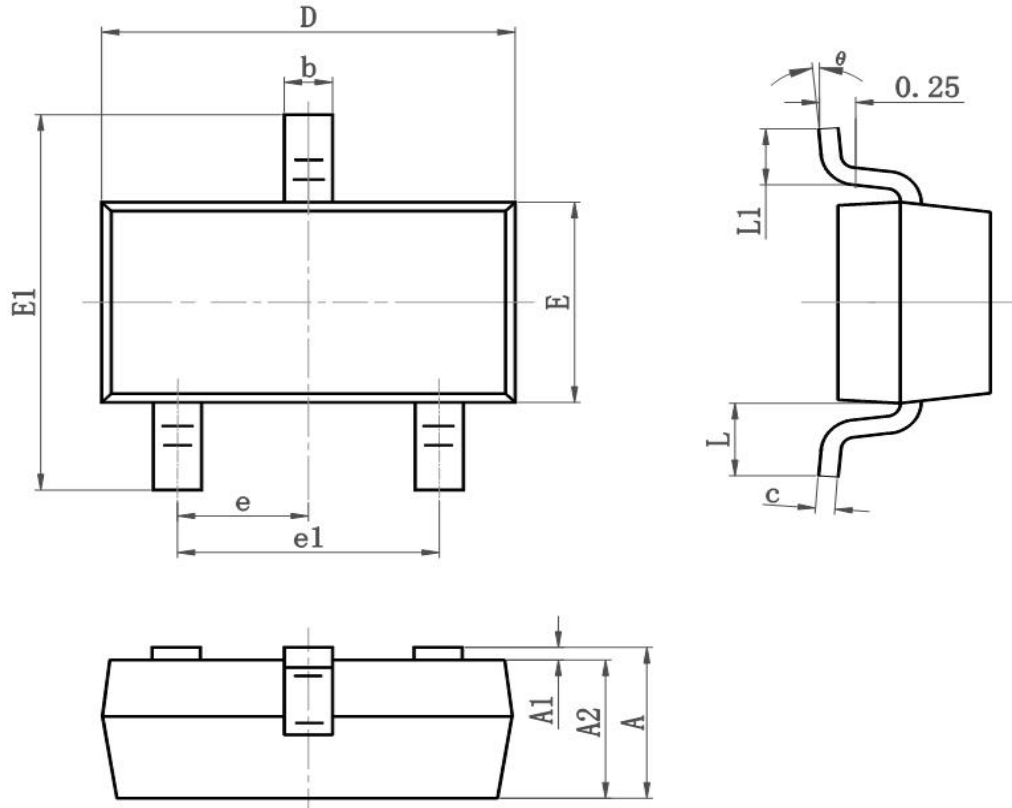


■ Typical Characteristic Curve 典型特性曲线





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	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

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