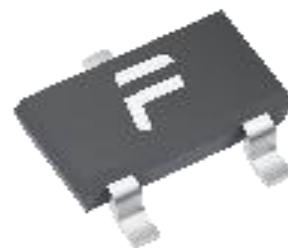
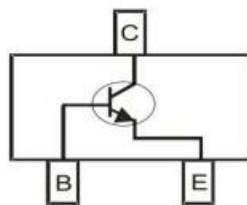


SOT-23 Bipolar Transistor 双极型三极管
■ Features 特点

NPN 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
		2SD602	2SD602A	
Collector-Base Voltage 集电极基极电压	V_{CBO}	30	60	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	25	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	500		mA
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}\text{C})$	200		mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	625		$^{\circ}\text{C}/\text{W}$
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

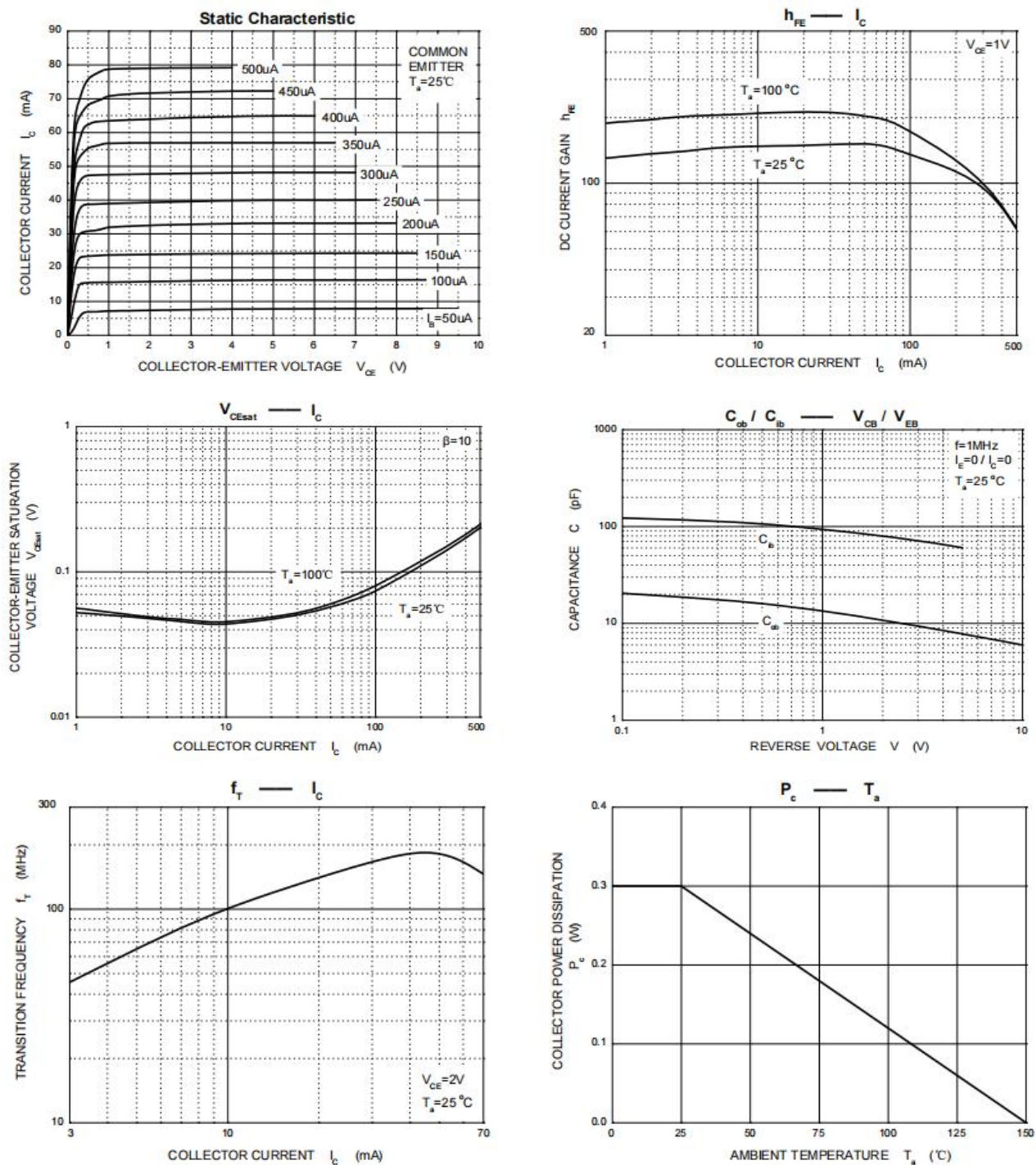
H_{FE}	85-170(Q)	120-240(R)	170-340(S)
Mark	WQ1	WR1	WS1

■Electrical Characteristics 电特性

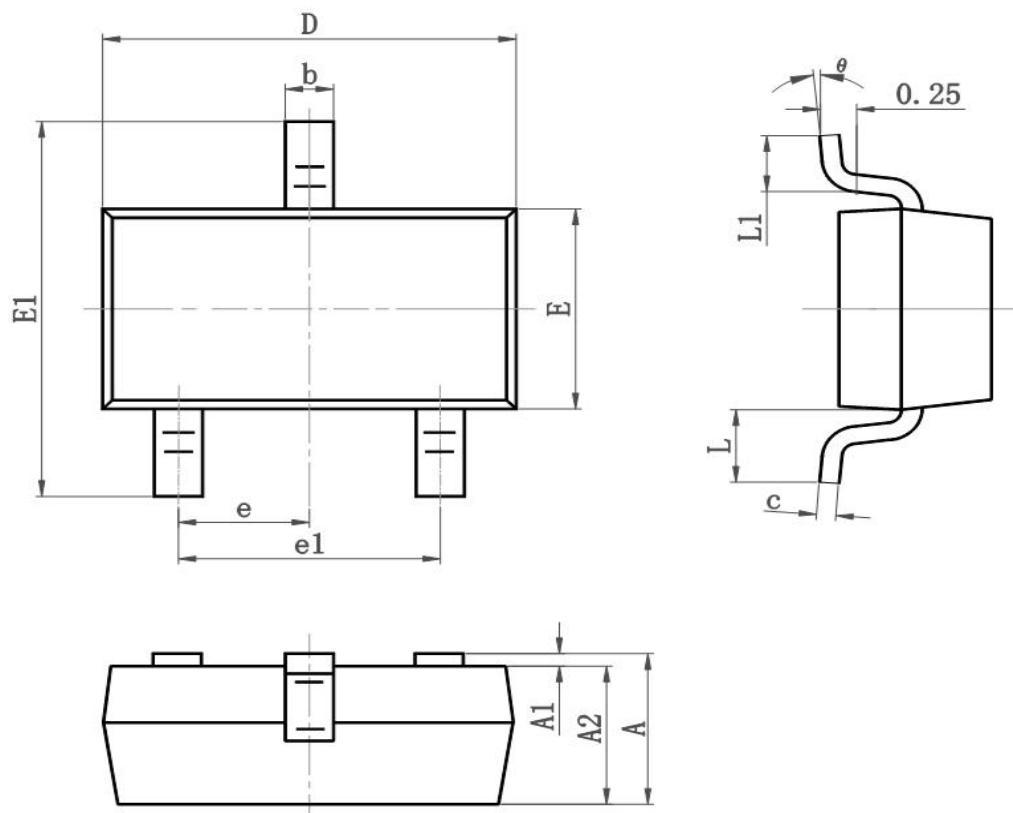
 (T_A=25℃ unless otherwise noted 如无特殊说明, 温度为 25℃)

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 = 10μA, I _E =0)	2SD602 2SD602A	BV _{CBO}	30 60	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 (I _C = 10mA, I _B =0)	2SD602 2SD602A	BV _{CEO}	25 50	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压 (I _E = 10μA, I _C =0)		BV _{EBO}	5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流 (V _{CB} =20V, 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(V _{CE} = 10V, I _C = 150mA) 直流电流增益(V _{CE} = 10V, I _C = 500mA)		H _{FE}	85 40	—	340	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 (I _C = 300mA, I _B = 30mA)		V _{CE(sat)}	—	—	0.6	V
Transition Frequency 特征频率 (V _{CE} = 10V, I _C = 50mA)		f _T	—	200	—	MHz
Output Capacitance 输出电容 (V _{CB} = 10V, I _E =0, f=1MHz)		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	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°