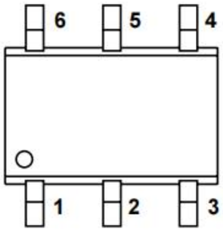
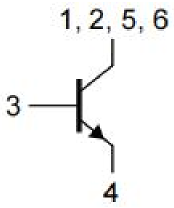
SOT-23-6L　Bipolar Transistor 双极型三极管





■Features 特点

NPN　Low Saturation Voltage 低饱和压降

■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}	6	V
Collector Current 集电极电流	I_C	3000	mA
Peak Collector Current 峰值集电极电流	I_{CM}	5000	mA
Power dissipation 耗散功率	P_C(T_a=25℃)	500	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\Theta JA}$	250	℃/W
Junction and Storage Temperature 结温和储藏温度	T_J,T_{stg}	-65to+150℃	

■Device Marking 产品打标

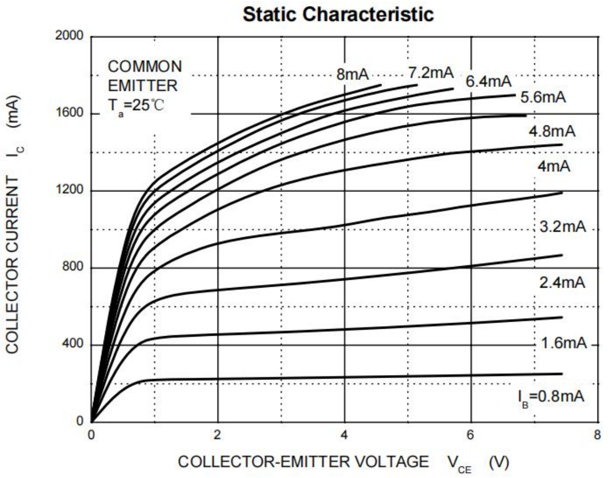
TYPE	BSS4350D
Marking	43

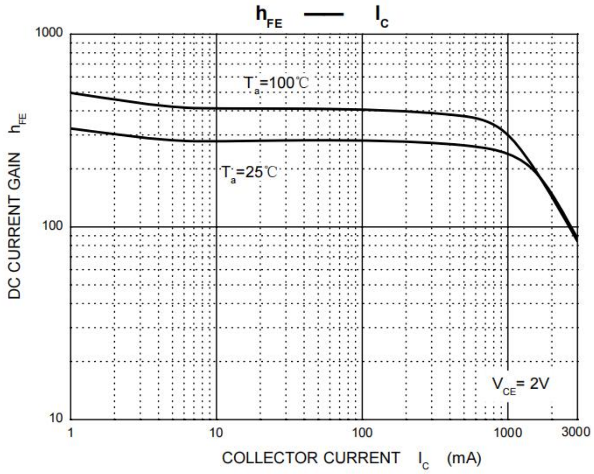
■Electrical Characteristics 电特性

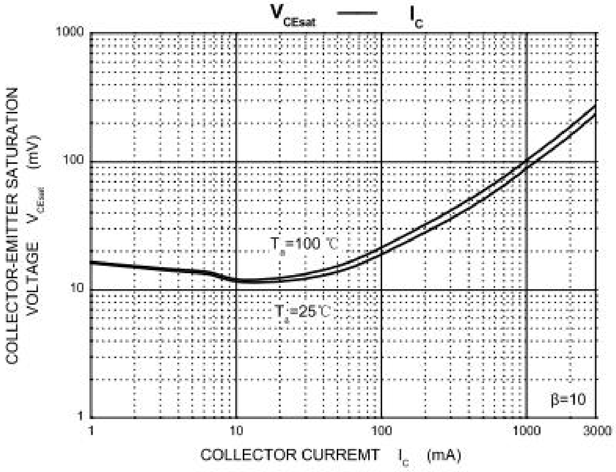
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为25℃)

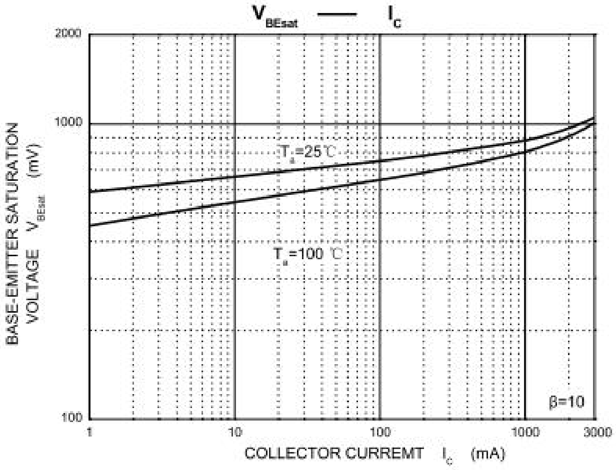
Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector-Base Breakdown Voltage 集电极基极击穿电压(I_C= 100μA，I_E=0)	BV_{CBO}	60	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压(I_C= 10mA，I_B=0)	BV_{CEO}	50	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压(I_E= 100μA，I_C=0)	BV_{EBO}	6	—	—	V
Collector-Base Leakage Current 集电极基极漏电流(V_{CB}= 50V，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}= 2V，I_C= 500mA) 直流电流增益(V_{CE}= 2V，I_C= 1000mA) (V_{CE}= 2V，I_C= 2000mA)	H_{FE}	200 200 100	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降(I_C= 500mA，I_B= 50mA) (I_C= 1000mA，I_B= 50mA) (I_C= 2000mA，I_B= 200mA)	$V_{CE(sat)}$	—	—	90 170 290	mV
Base-Emitter Saturation Voltage 基极发射极饱和压降(I_C= 2000mA，I_B= 200mA)	$V_{BE(sat)}$	—	—	1.2	V
Transition Frequency 特征频率(V_{CE}= 5V，I_C= 100mA)	f_T	100	—	—	MHz
Output Capacitance 输出电容(V_{CB}= 10V，I_E=0, f=1MHz)	Cob	—	—	30	pF

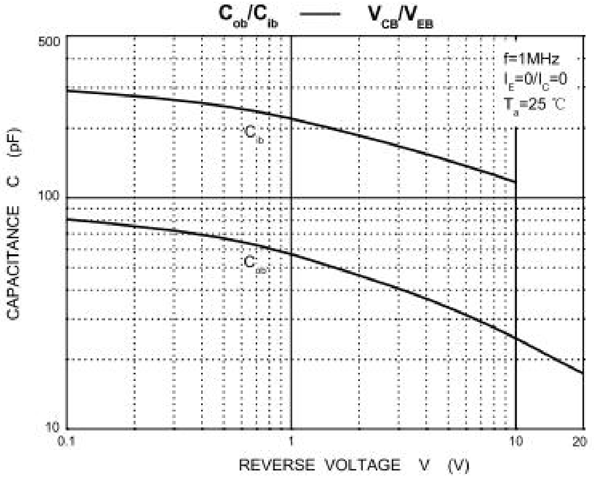
■Typical Characteristic Curve 典型特性曲线

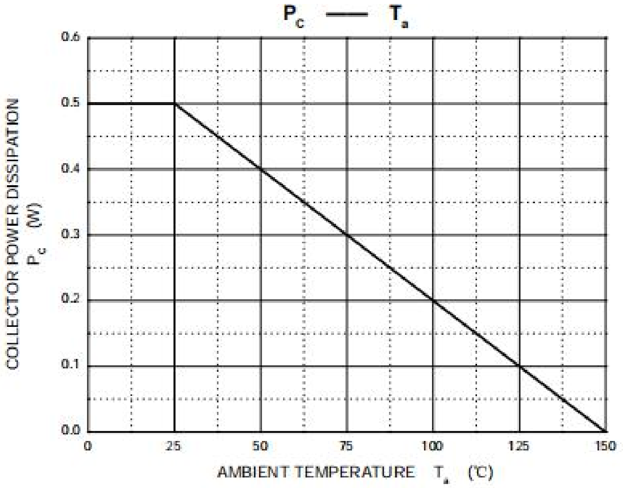




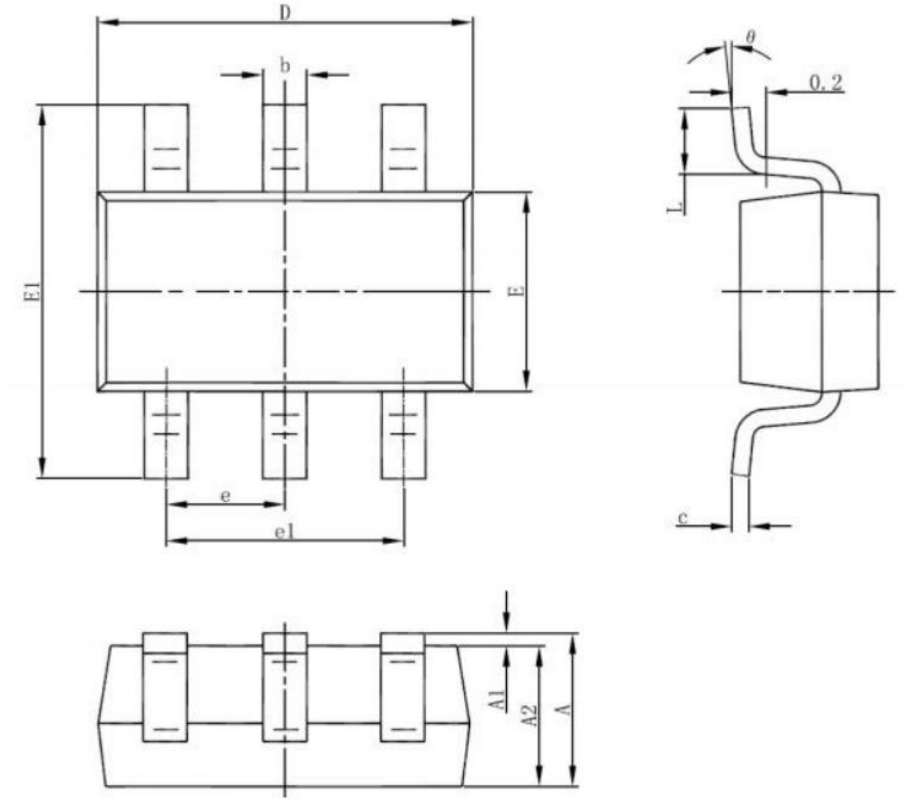








■Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°