



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO. , LTD.

SS8050S

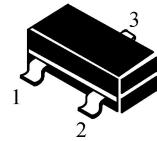
SOT-23 Bipolar Transistor 双极型三极管

■ Features 特点

NPN General Purpose 通用

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}	40	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	25	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	6	V
Collector Current 集电极电流	I_C	1.5	A
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}C)$	300	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	417	$^{\circ}C/W$
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

SS8050S=Y1.

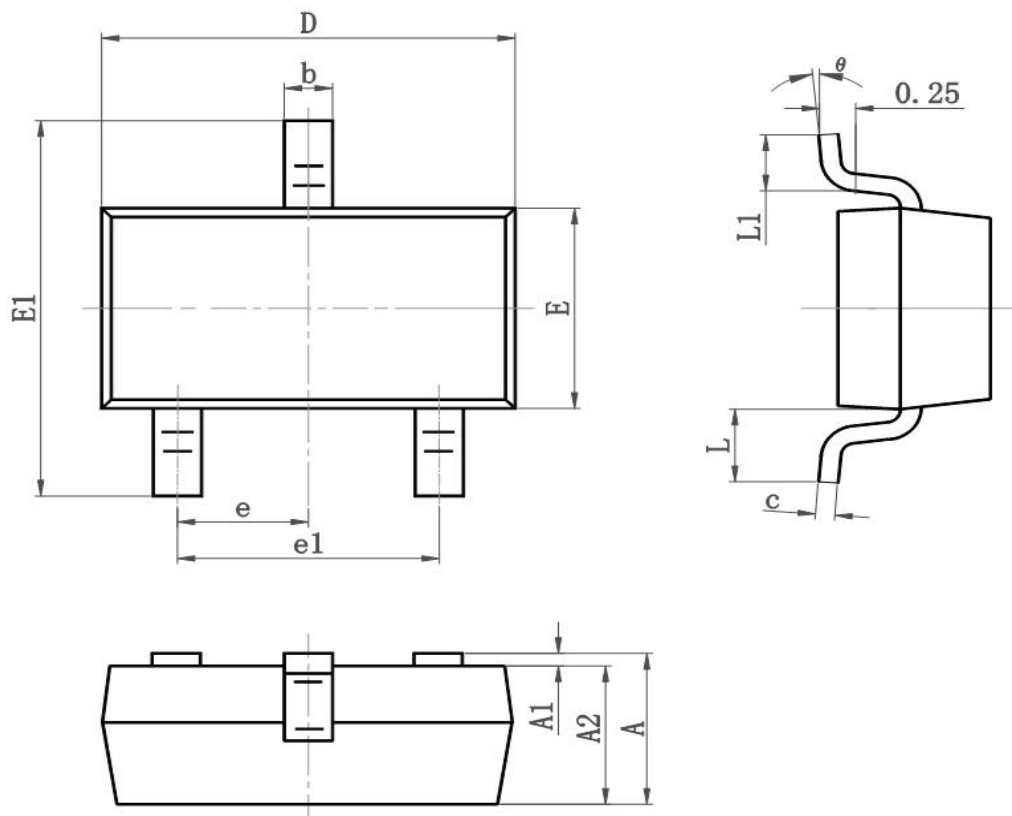


■Electrical Characteristics 电特性

(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 (IC= 100uA, IE=0)	BV _{CBO}	40	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 (IC= 1mA, IB=0)	BV _{CEO}	25	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压 (IE= 100uA, IC=0)	BV _{EBO}	6	9	—	V
Collector-Base Leakage Current 集电极基极漏电流 (V _{CB} = 40V, IE=0)	I _{CBO}	—	—	100	nA
Collector-Emitter Leakage Current 集电极发射极漏电流 (V _{CE} = 20V, V _{BE} =0)	I _{CES}	—	—	100	nA
Emitter-Base Leakage Current 发射极基极漏电流 (V _{EB} = 6V, IC=0)	I _{EBO}	—	—	100	nA
DC Current Gain(V _{CE} = 1V, IC= 10mA) 直流电流增益(V _{CE} = 1V, IC= 100mA)	H _{FE1} H _{FE2}	200 200	—	350 350	
DC Current Gain R 直流电流增益比率	H _{FE1} /H _{FE2}	0.8	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 (IC= 800mA, IB= 80mA)	V _{CE(sat)}	—	—	0.5	V
Base-Emitter Saturation Voltage 基极发射极饱和压降 (IC= 800mA, IB= 80mA)	V _{BE(sat)}	—	—	1.2	V
Transition Frequency 特征频率 (V _{CE} = 6V, IC= 20mA)	f _T	—	100	—	MHz

■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°