



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

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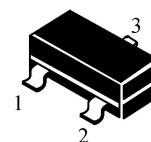
SOT-23 Bipolar Transistor 双极型三极管

■ Features 特点

PNP Power Amplifier 功率放大

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}	-60	V
Collector-Emitter Voltage 集电极发射极电压	V_{CEO}	-60	V
Emitter-Base Voltage 发射极基极电压	V_{EBO}	-5	V
Collector Current 集电极电流	I_C	-300	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} (1)	110-180	135-220	170-270	200-320	250-400
Mark	BW1	BW2	BW3	BW4	BW5

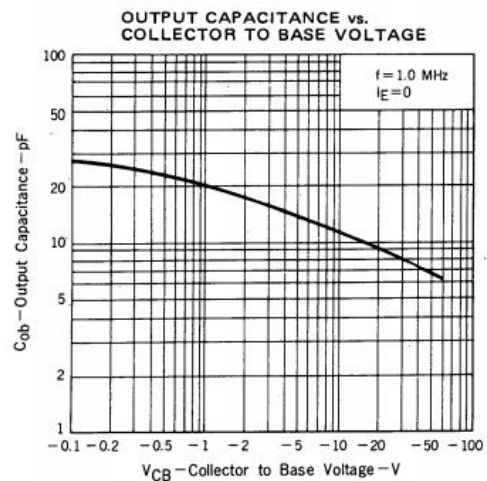
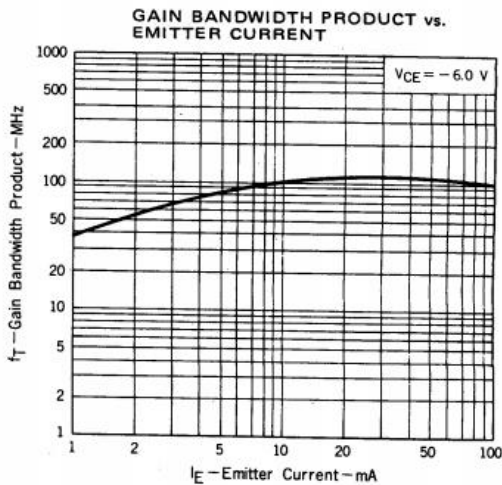
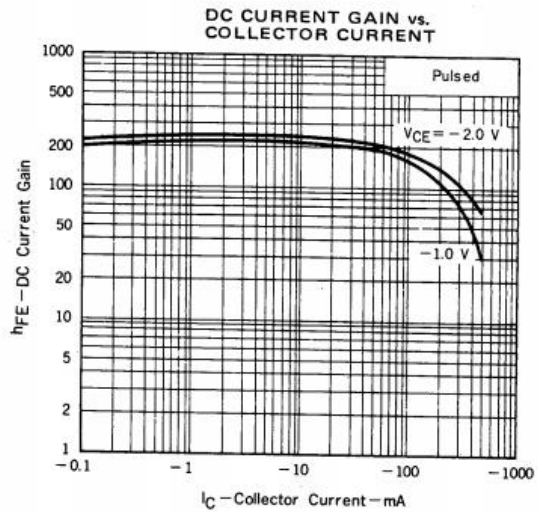
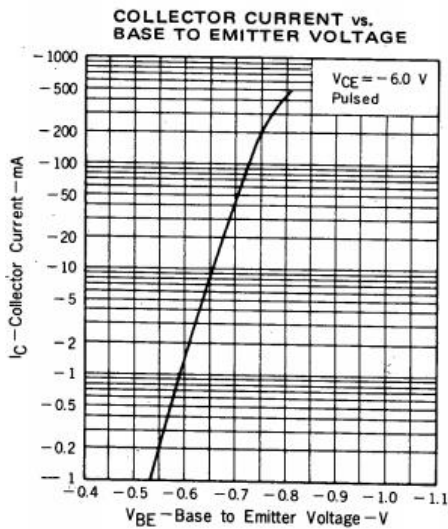
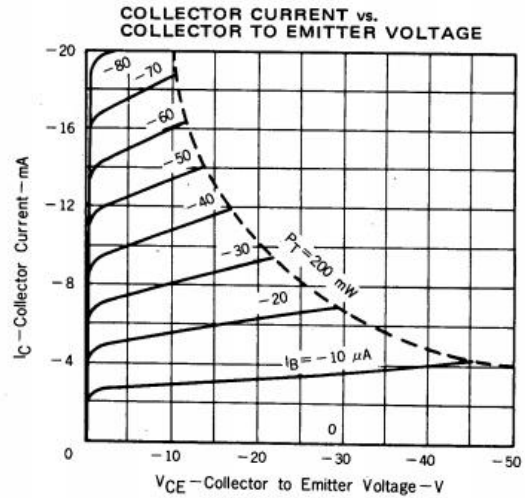
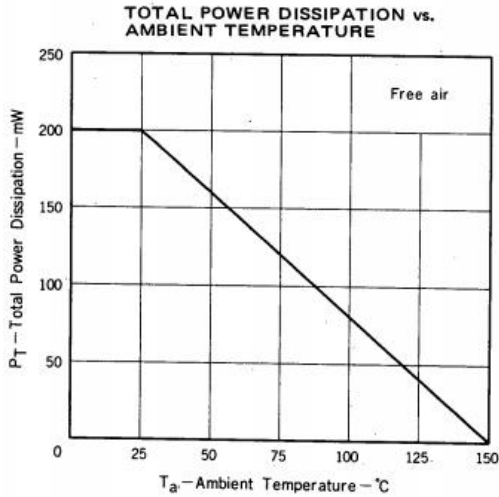


■Electrical Characteristics 电特性

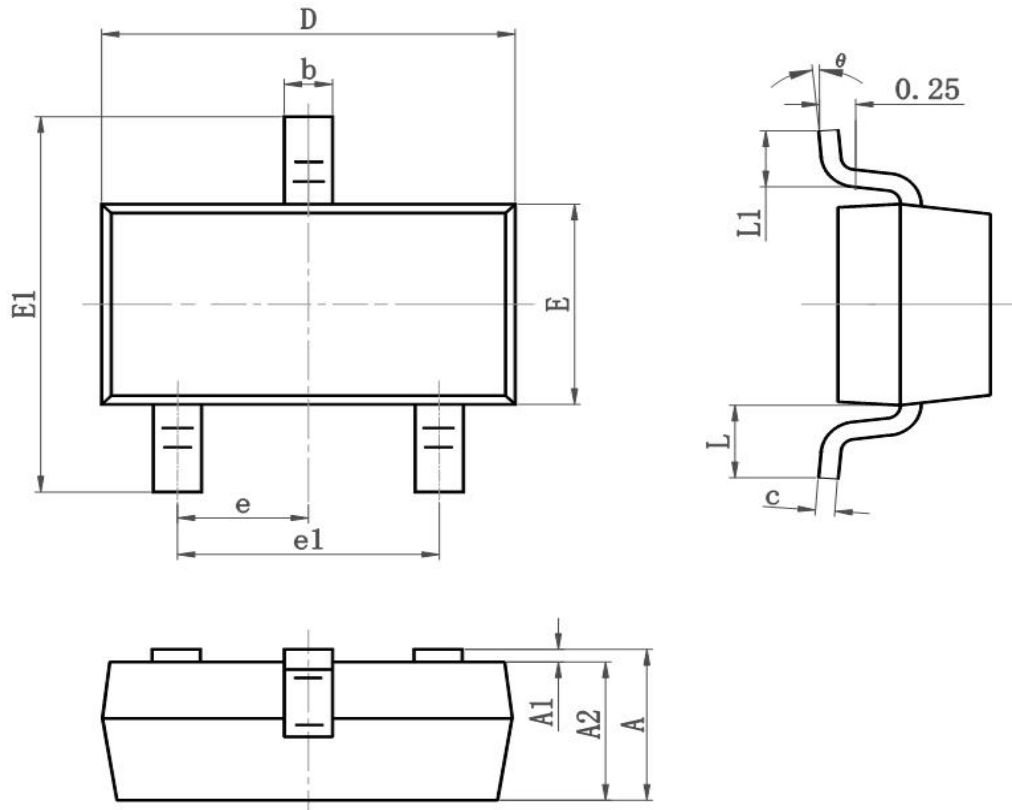
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

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($I_C = -100\mu\text{A}$, $I_E = 0$)	BV_{CBO}	-60	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压($I_C = -1\text{mA}$, $I_B = 0$)	BV_{CEO}	-60	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压($I_E = -100\mu\text{A}$, $I_C = 0$)	BV_{EBO}	-5	—	—	V
Collector-Base Leakage Current 集电极基极漏电流($V_{CB} = -50\text{V}$, $I_E = 0$)	I_{CBO}	—	—	-100	nA
Emitter-Base Leakage Current 发射极基极漏电流($V_{EB} = -5\text{V}$, $I_C = 0$)	I_{EBO}	—	—	-100	nA
DC Current Gain 直流电流增益($V_{CE} = -1\text{V}$, $I_C = -50\text{mA}$)	$H_{FE} (1)$	110	—	400	
DC Current Gain 直流电流增益($V_{CE} = -2\text{V}$, $I_C = -300\text{mA}$)	$H_{FE} (2)$	30	—	—	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 ($I_C = -300\text{mA}$, $I_B = -30\text{mA}$)	$V_{CE(sat)}$	—	-0.35	-0.6	V
Base-Emitter On Voltage 基极发射极导通压降 ($V_{CE} = -6\text{V}$, $I_C = -10\text{mA}$)	$V_{BE(on)}$	-0.6	-0.66	-0.7	V
Transition Frequency 特征频率($V_{CE} = -6\text{V}$, $I_C = -10\text{mA}$)	f_T	—	100	—	MHz
Output Capacitance 输出电容($V_{CB} = -6\text{V}$, $I_E = 0$, $f = 1\text{MHz}$)	C_{ob}	—	13	—	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°