



# S9015

## 主要参数 MAIN CHARACTERISTICS

$I_c$	100mA
$V_{CEO}$	45V
$P_c$ (SOT-23)	200mW

### 用途

- 高频开关电源
- 高频功率变换
- 一般功率放大电路

### 产品特性

- 硅外延
- 高开关速度
- 与 S9014 互补
- 环保 (RoHS) 产品

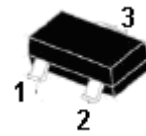
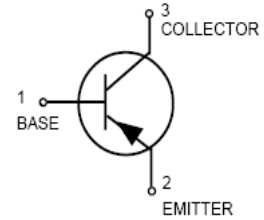
### APPLICATIONS

- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

### FEATURES

- Epitaxial silicon
- High switching speed
- Complementary to S9014
- RoHS product

## 封装 Package



SOT-23

## 订货信息 ORDER MESSAGE

订货型号 Order codes	印记 Marking	无卤素 Halogen Free	封装 Package	包装 Packaging
S9015-N1-A	M6	否 NO	SOT-23	卷盘 Reel
S9015-N1-A-R	M6	是 YES	SOT-23	卷盘 Reel



**绝对最大额定值 ABSOLUTE RATINGS** ( $T_c=25^\circ\text{C}$ )

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压 Collector- Base Voltage ( $I_E=0$ )	$V_{CB0}$	-50	V
集电极—发射极直流电压 Collector- Emitter Voltage ( $I_B=0$ )	$V_{CEO}$	-45	V
发射极—基极直流电压 Emitter-Base Voltage ( $I_C=0$ )	$V_{EBO}$	-5	V
最大集电极直流电流 Collector Current (DC)	$I_C$	-0.1	A
最大集电极耗散功率 Total Dissipation	$P_C$	0.2	W
最高结温 Junction Temperature	$T_j$	150	$^\circ\text{C}$
贮存温度 Storage Temperature	$T_{stg}$	-55~+150	$^\circ\text{C}$

**电特性 ELECTRICAL CHARACTERISTIC** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

参数 Parameter	测试条件 Tests Conditions	最小值 Min.	最大值 Max.	单位 Unit
$V_{(BR)CB0}$	$I_C=-100\mu\text{A}, I_E=0$	-50		V
$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-45		V
$V_{(BR)EBO}$	$I_E=-10\mu\text{A}, I_C=0$	-5		V
$I_{CB0}$	$V_{CB}=-40\text{V}, I_E=0$		-100	nA
$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$		-100	nA
$h_{FE}(1)$	$V_{CE}=-5\text{V}, I_C=-1\text{mA}$	200	400	
$V_{CE(SAT)}$	$I_C=-50\text{mA}, I_B=-5\text{mA}$		-0.3	V
$V_{BE(SAT)}$	$I_C=-50\text{mA}, I_B=-5\text{mA}$		-1	V
* $f_T$	$I_C=-10\text{mA}, V_{CE}=-20\text{V}, f=100\text{MHz}$	150		MHz

**热特性 THERMAL CHARACTERISTIC**

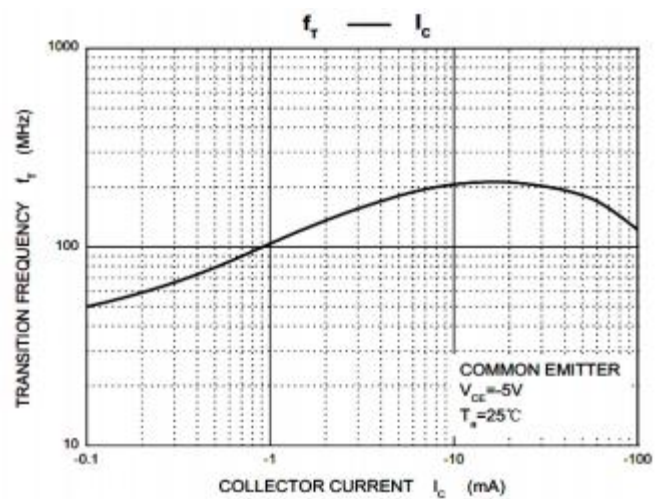
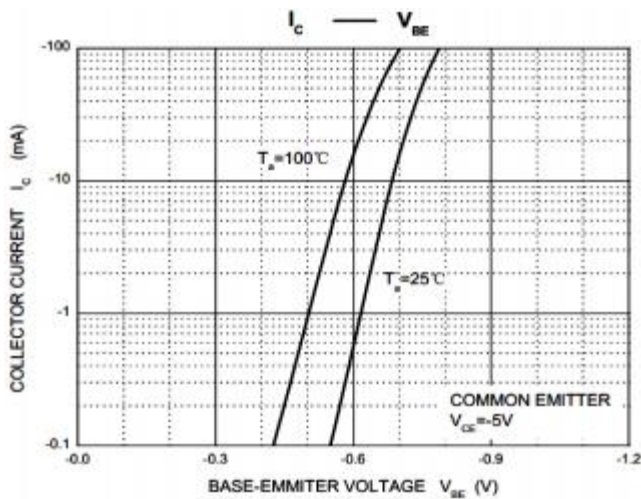
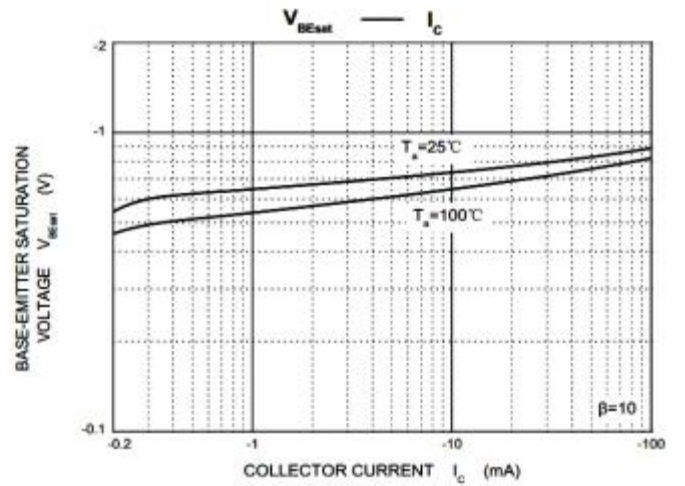
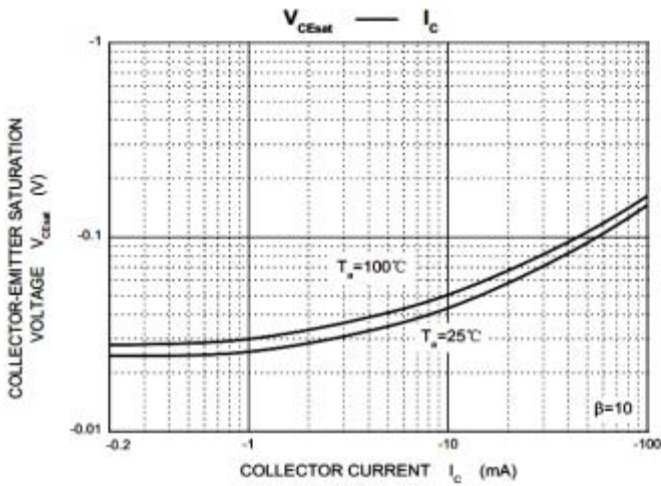
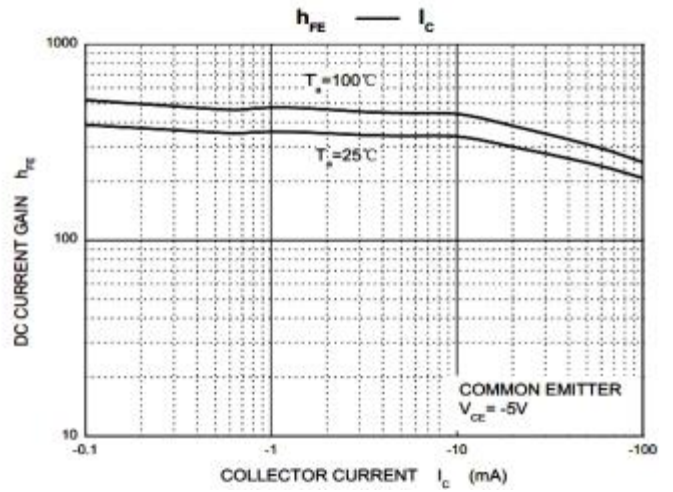
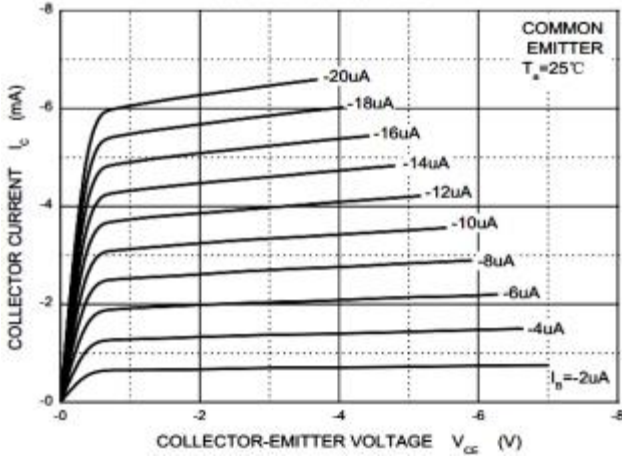
项 目 Parameter	符 号 Symbol	最大值 Value(max)	单 位 Unit
结到环境的热阻 SOT-23 Thermal Resistance Junction Ambient SOT-23	$R_{th(j-a)}$	556	$^\circ\text{C/W}$

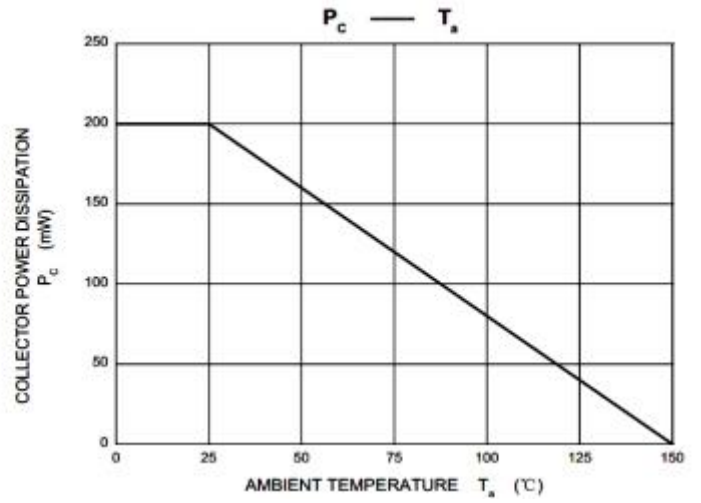
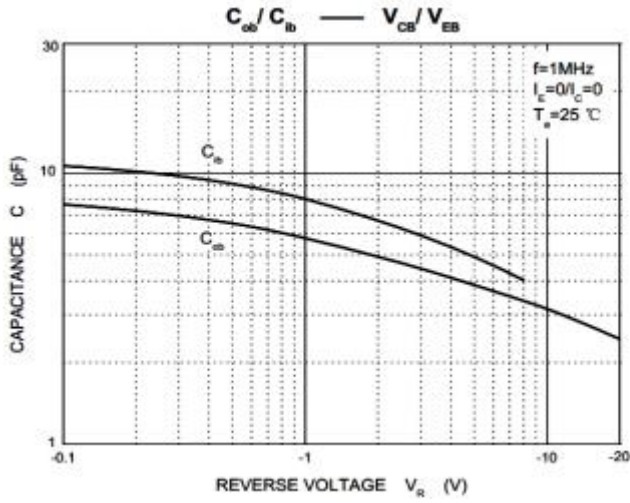




特征曲线 ELECTRICAL CHARACTERISTICS (curves)

Static Characteristic



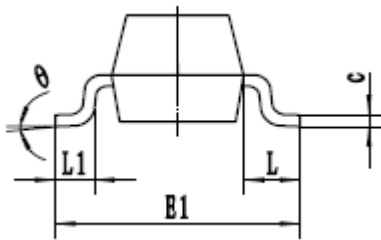
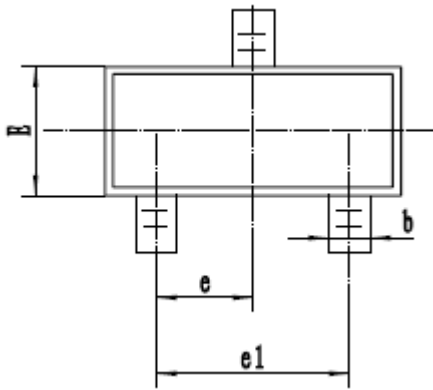
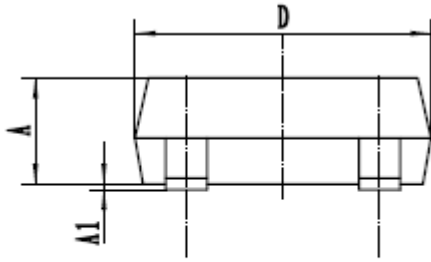




## 外形尺寸 PACKAGE MECHANICAL DATA

SOT-23

单位 Unit : mm



SYMBOL	mm	
	MIN	MAX
A	0.85	1.20
A1	0.00	0.15
b	0.25	0.60
c	0.075	0.20
D	2.75	3.05
E	1.15	1.45
E1	2.20	2.60
e	0.950TYP	
e1	1.75	2.05
L	0.55REF	
L1	0.15	0.55
$\theta$	0°	10°



**注意事项**

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this. specification sheet and is subject to change without prior notice.

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**附录（Appendix）：修订记录（Revision History）**

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes
2019-7-10		201907A	

