



# 2SC2921(NPN) 2SA1215(PNP)

## 用途

- 高保真音响及其他线性应用

## 产品特性

- 高集电极电压:  $V_{CE0}=160V$  (min)
- NPN-PNP 互补
- 宽安全工作区
- 环保 (RoHS) 产品

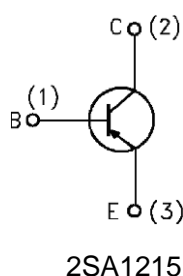
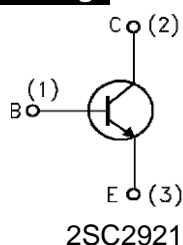
## APPLICATIONS

- High fidelity audio amplifier and other linear applications

## FEATURES

- High collector voltage:  $V_{CE0}=160V$  (min)
- Complementary NPN-PNP
- Exceptional Safe Operating Area
- RoHS Devices

## 封装 Package

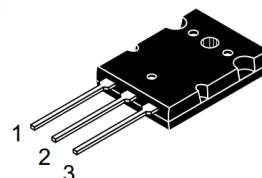


MT-200



1 2 3

TO-3PLT



1. 基极 BASE
2. 集电极 (热沉)  
COLLECTOR (HEAT SINK)
3. 发射极 EMITTER

## 订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-盒装 Halogen-Reel	无卤-盒装 Halogen Free-Reel		
N/A	N/A	2SC2921-I-D	N/A	2SC2921S	MT-200
2SC2921-GC-B	N/A	N/A	N/A	2SC2921S	TO-3PLT
N/A	N/A	2SA1215-I-D	N/A	2SA1215S	MT-200
2SA1215-GC-B	N/A	N/A	N/A	2SA1215S	TO-3PLT



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绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C unless otherwise noted)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压 Collector- Base Voltage	V <sub>CB0</sub>	160	V
集电极—发射极直流电压 Collector- Emitter Voltage	V <sub>CEO</sub>	160	V
发射极—基极直流电压 Emitter-Base Voltage	V <sub>EBO</sub>	5.0	V
最大集电极电流 Collector Current	I <sub>C</sub>	15	A
最大基极电流 Base Current	I <sub>B</sub>	4	A
耗散功率 Total Power Dissipation(Tc=25°C)	P <sub>D</sub>	150	W
最高结温 Junction Temperature	T <sub>j</sub>	150	°C
贮存温度 Storage Temperature	T <sub>stg</sub>	-55~150	°C

### 电特性 ELECTRICAL CHARACTERISTIC

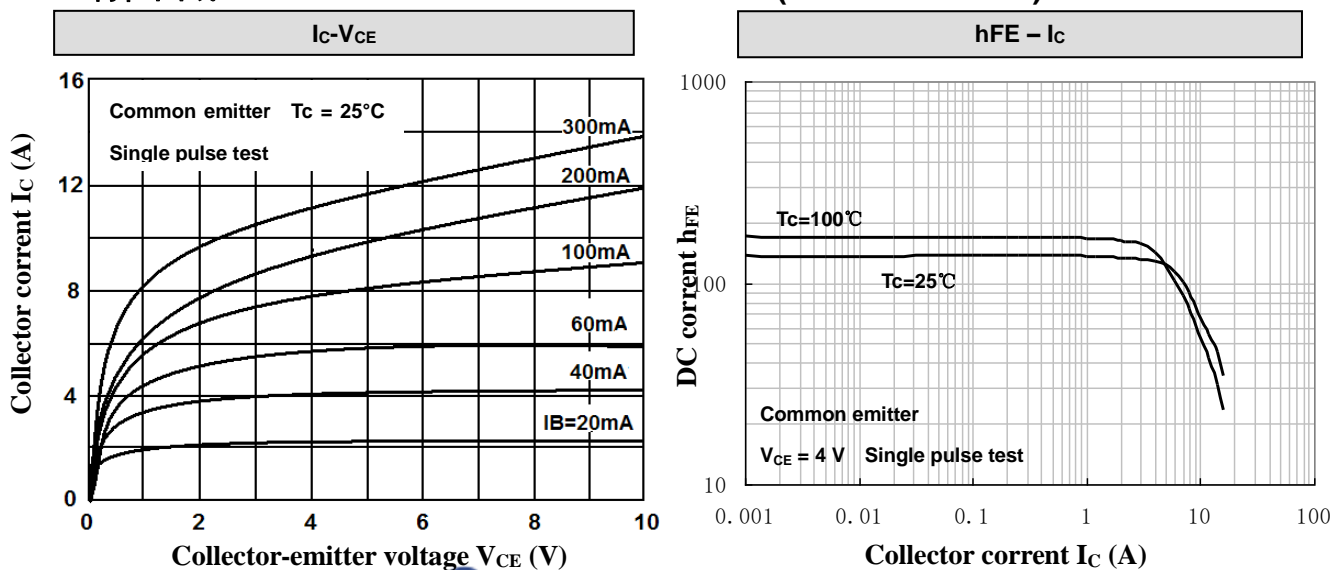
项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V <sub>(BR)CEO</sub>	I <sub>C</sub> =25mA, I <sub>B</sub> =0	160	-	-	V
I <sub>CB0</sub>	V <sub>CB</sub> =160V, I <sub>E</sub> =0	-	-	100	μA
I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	100	μA
hFE	V <sub>CE</sub> =4V, I <sub>C</sub> =5A	50*	-	-	-
V <sub>CE(sat)</sub>	I <sub>C</sub> =5A, I <sub>B</sub> =0.5A	-	-	2.0	V
f <sub>T</sub>	V <sub>CE</sub> =12V, I <sub>E</sub> =1.0A, f=1.0MHz	-	30	-	MHz
C <sub>Ob</sub>	V <sub>CE</sub> =10V, I <sub>E</sub> =0, f=1.0MHz	-	-	600	pF

\*Hfe Rank: O(50 to 100), P(70 to 140), Y(90 to 180)

### 热特性 THERMAL CHARACTERISTIC

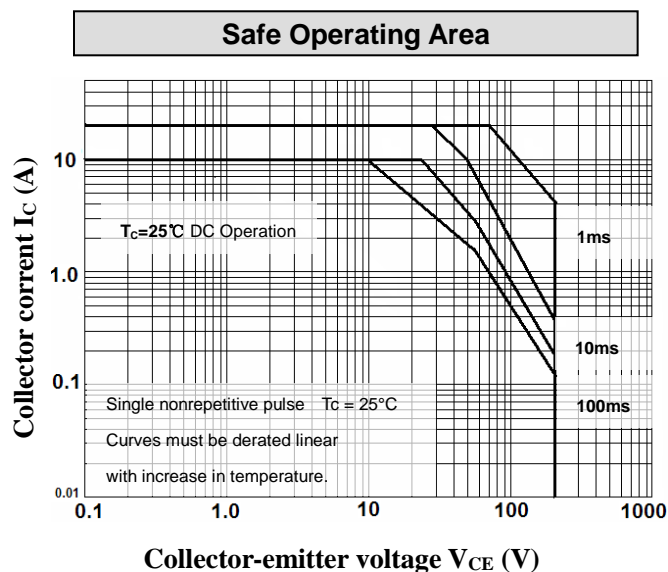
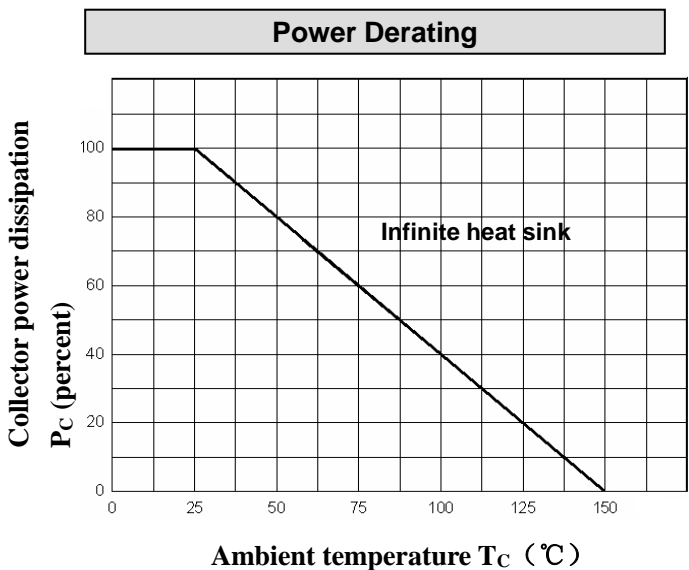
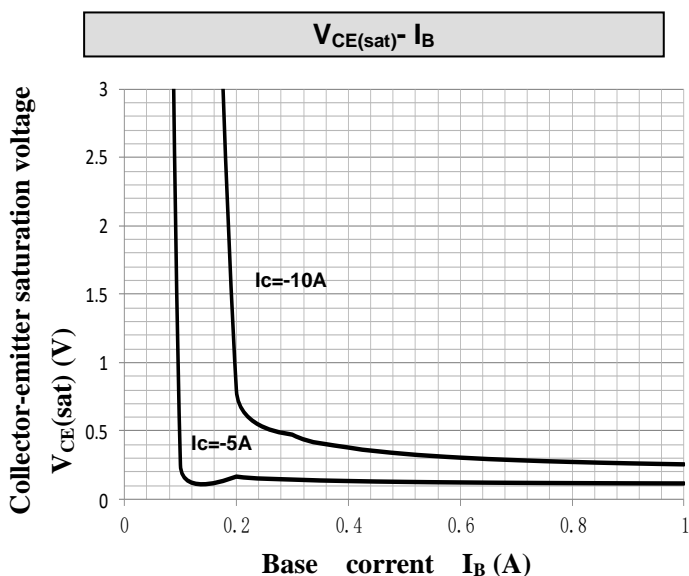
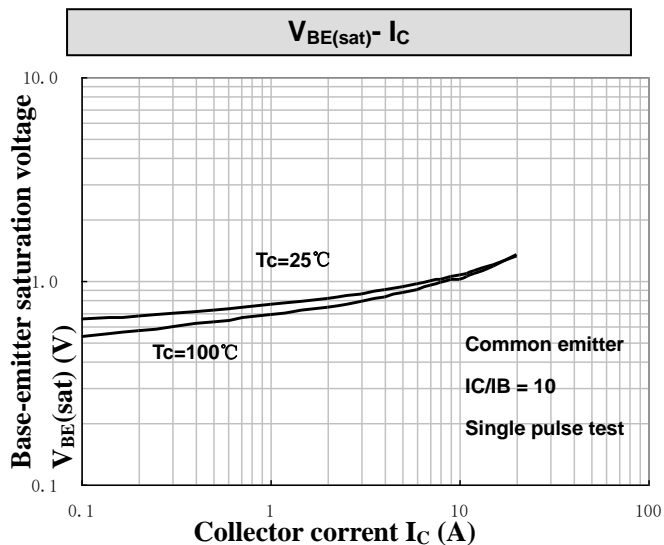
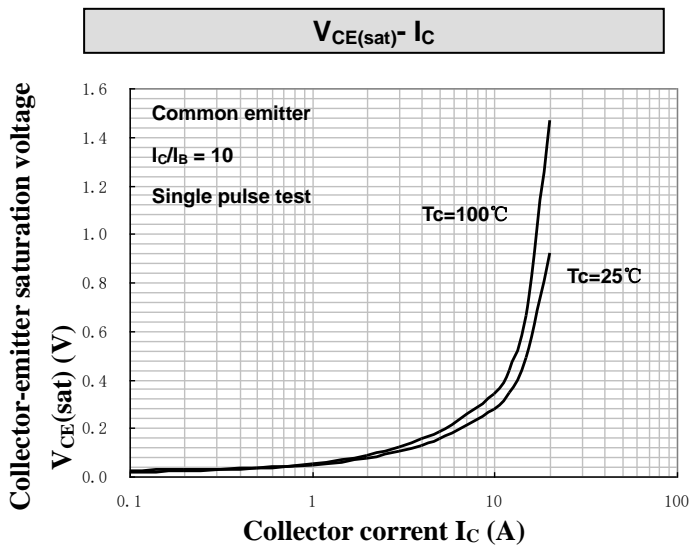
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case	R <sub>th(j-c)</sub>	-	0.833	°C/W

### 特征曲线 ELECTRICAL CHARACTERISTICS (2SC2921 curves)





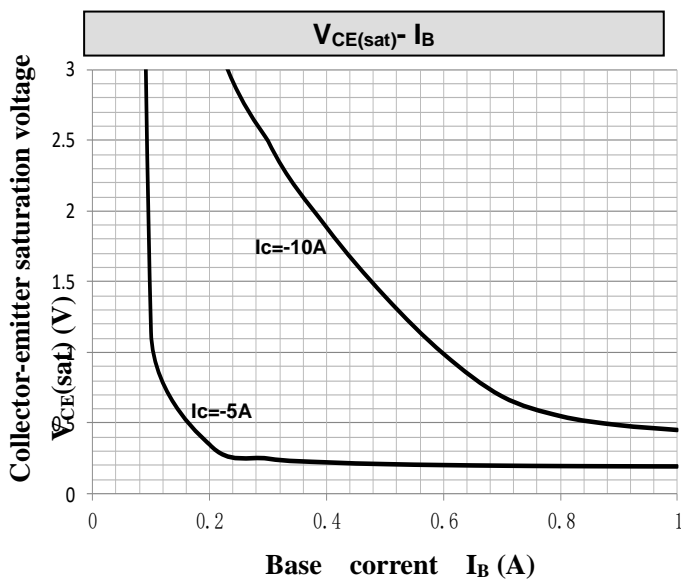
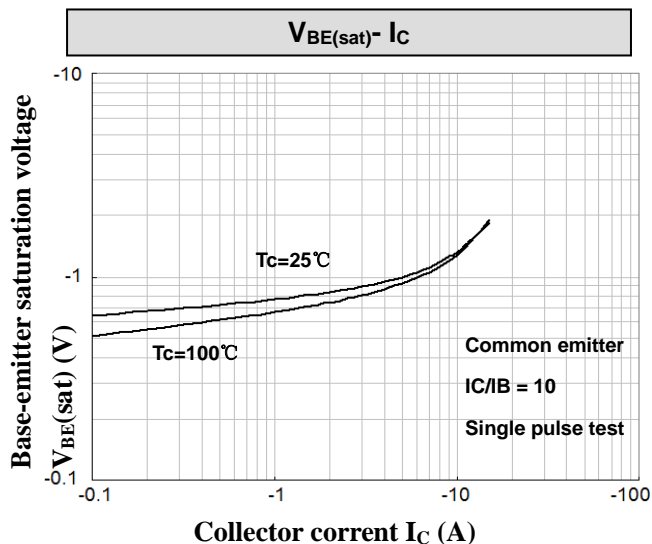
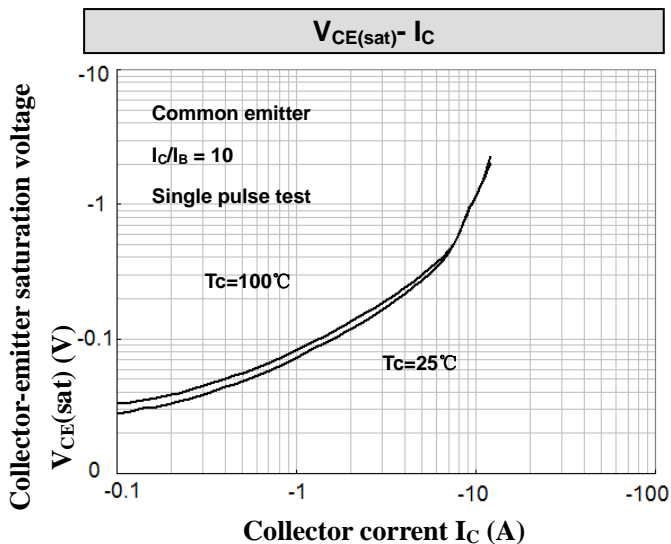
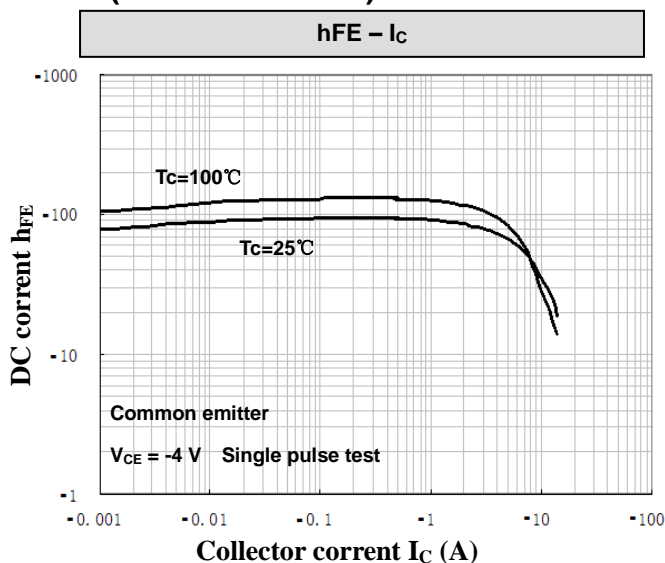
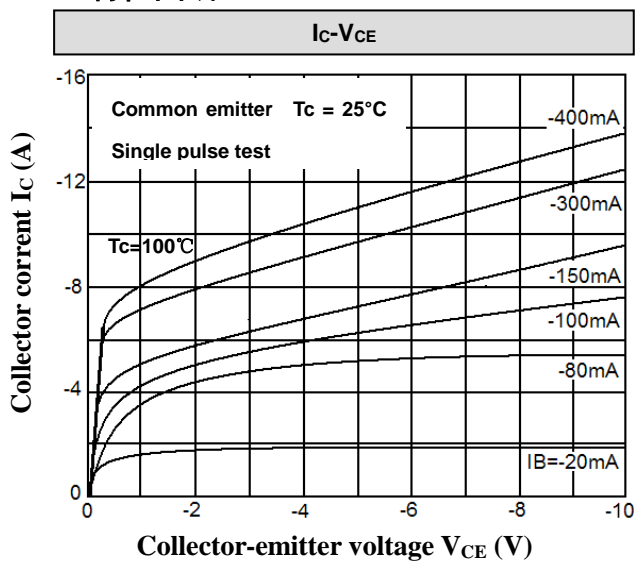
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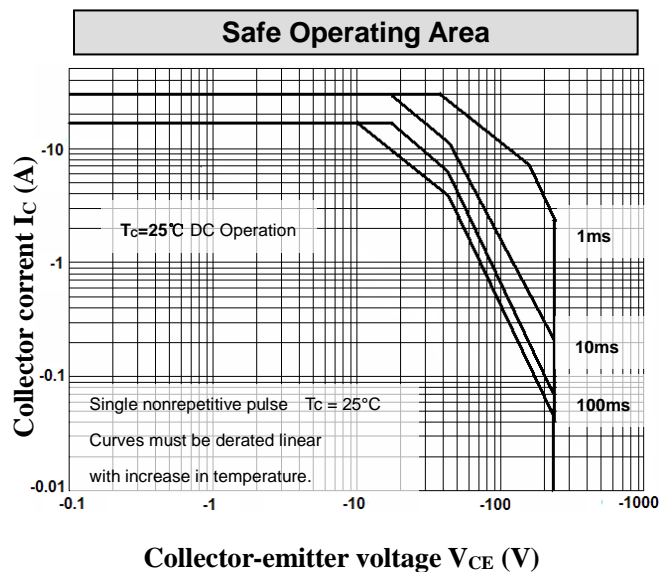
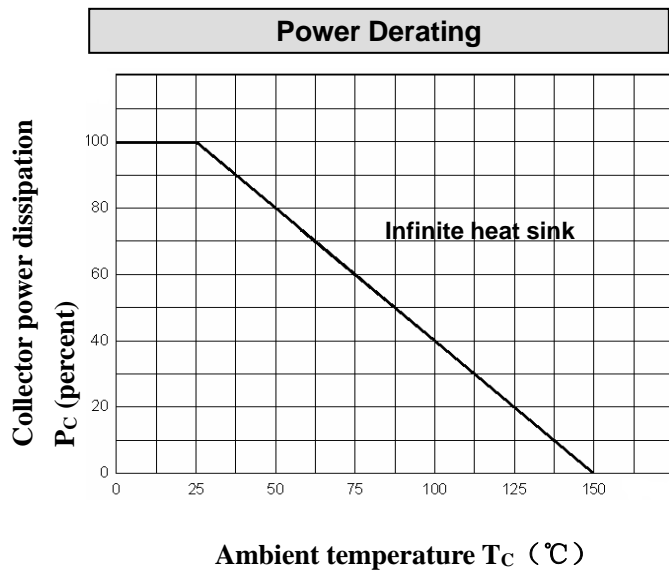
# 2SC2921(NPN) 2SA1215(PNP)

## 特征曲线 ELECTRICAL CHARACTERISTICS(2SA1215 curves)





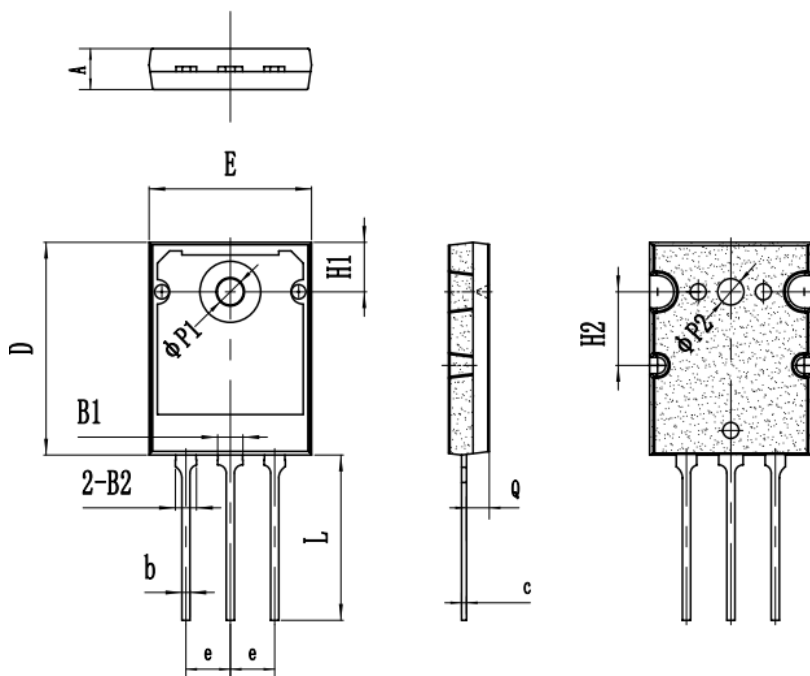
## 2SC2921(NPN) 2SA1215(PNP)



### 外形尺寸 PACKAGE MECHANICAL DATA

#### TO-3PLT

单位 Unit : mm

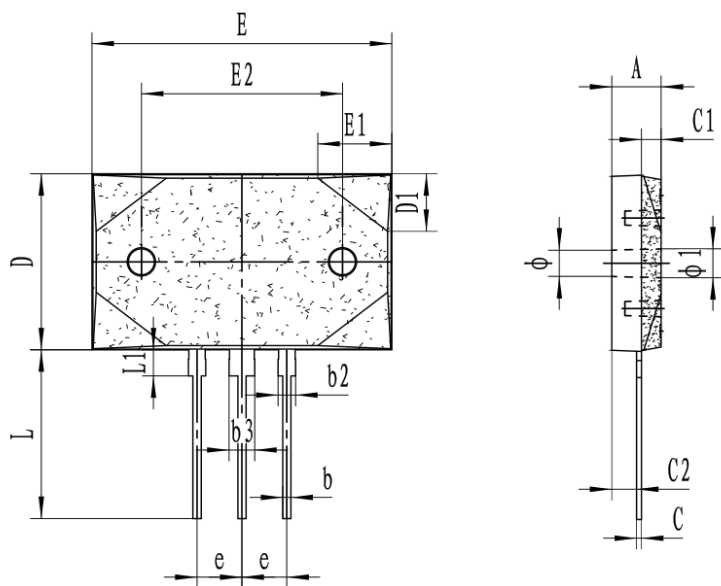


符号	尺寸 (mm)
A	4.70-5.30
B1	2.80-3.20
B2	2.30-2.70
b	0.80-1.25
c	0.59-0.61
D	25.5-26.5
E	19.5-20.5
e	5.45(typ)
H1	6.00-6.10
H2	8.95-9.05
L	20.0-20.4
Q	2.75-2.85
P1	3.45-3.55
P2	3.20-3.30



## 2SC2921(NPN) 2SA1215(PNP)

MT-200



符号	尺寸 (mm)
A	5.80-6.20
b	0.95-1.25
b2	1.95-2.20
b3	3.00-3.20
C	0.55-0.85
C1	2.00-2.20
C2	2.90-3.30
D	21.1-21.7
D1	7BSC
E	36.1-36.7
E1	9BSC
E2	24.2-24.6
e	5.35-5.55
$\phi$	3.10-3.30
$\phi 1$	3.40-3.60
L	20.0-21.0
L1	3.00-4.00

### 注意事项

1. 吉林华微电子股份有限公司的产品销售分为直销和销售代理，无论哪种方式，订货时请与公司核实。
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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。
4. 本说明书如有版本变更不另外告知。

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2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
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.



## 2SC2921(NPN) 2SA1215(PNP)

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