

# 2SA608(K)

Rev.E Mar.-2016

## 描述 / Descriptions

TO-92 塑封封装 PNP 半导体三极管。Silicon PNP transistor in a TO-92 Plastic Package.

## 特征 / Features

2SA608(K)根据使用情况的不同分为 SP , NP 两种类型。

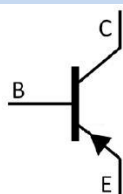
The 2SA608(K) is classified into 2 types of S,NP according to the case outline.

## 用途 / Applications

用于普通放大及开关电路。

General- purpose AMP, switching applications.

## 内部等效电路 / Equivalent Circuit



## 引脚排列 / Pinning



PIN1 : Base      PIN 2 : Collector      PIN 3 : Emitter

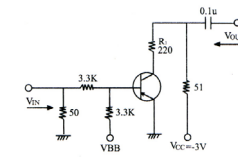
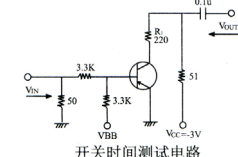
## 放大及印章代码 / hFE Classifications & Marking

h <sub>FE</sub> Classifications Symbol	D	E	F	G
h <sub>FE</sub> Range	60~120	100~200	160~320	280~560

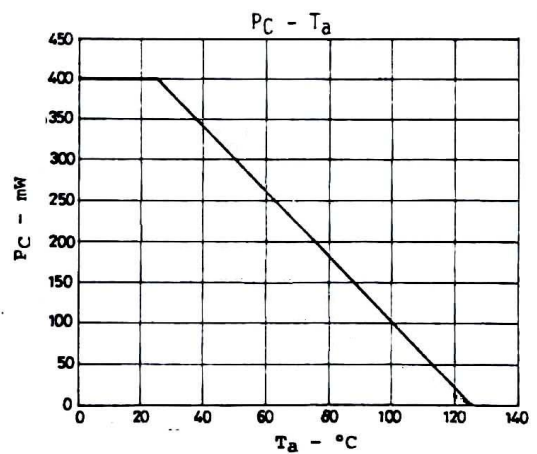
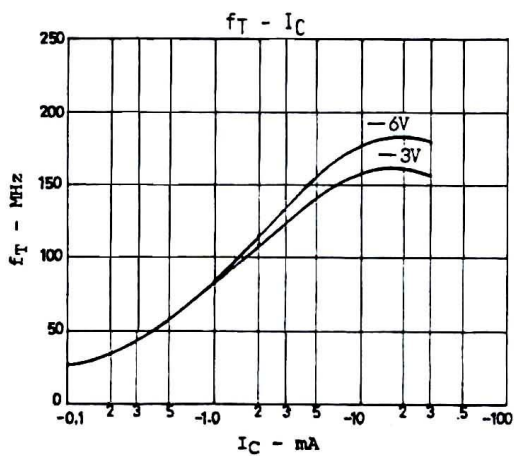
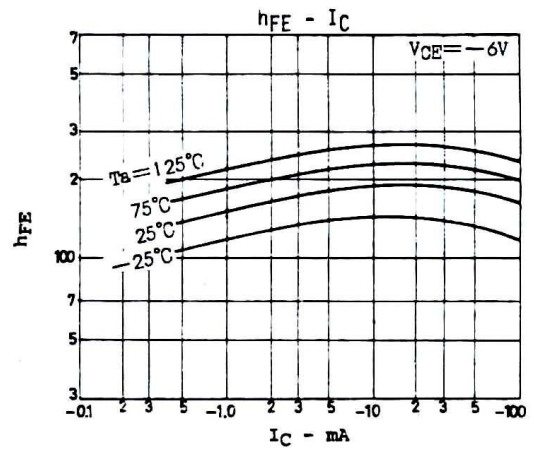
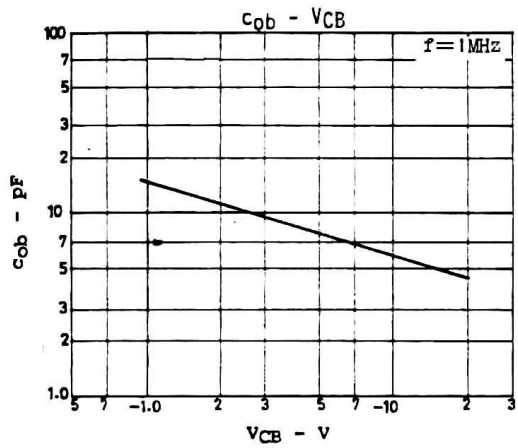
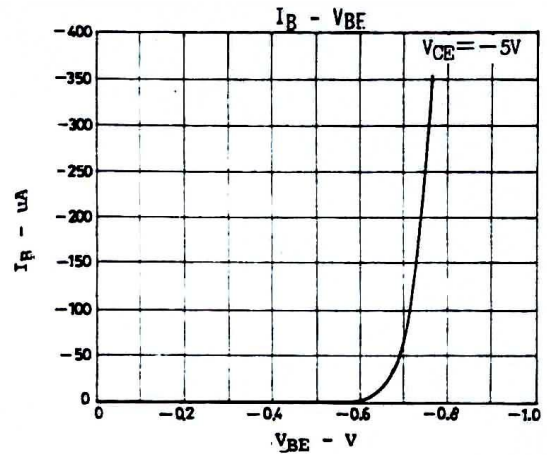
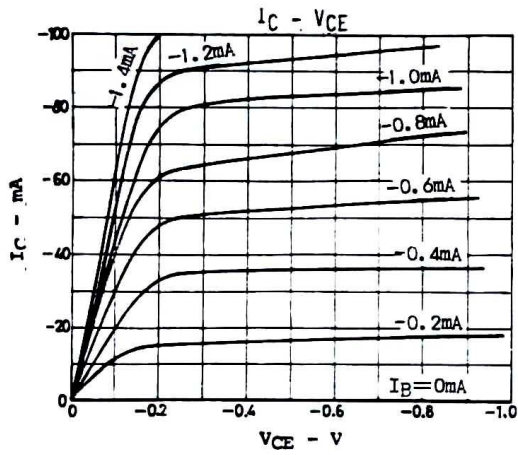
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V <sub>CBO</sub>	2SA608	-40
		2SA608K	-55
Collector to Emitter Voltage	V <sub>CEO</sub>	2SA608	-30
		2SA608K	-50
Emitter to Base Voltage	V <sub>EBO</sub>	-5.0	V
Collector Current - Continuous	I <sub>C</sub>	-100	mA
Collector Power Dissipation	P <sub>C</sub>	400	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C

电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-25V I <sub>E</sub> =0			-1.0	μA
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-4.0V I <sub>C</sub> =0			-1.0	μA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =-6.0V I <sub>C</sub> =-1.0mA	60		560	
Collector to Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-50mA I <sub>B</sub> =-5.0mA			-0.5	V
Gain Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =-6.0V I <sub>C</sub> =-10mA		180		MHz
Output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =-6.0V f=1.0MHz		7.0		pF
Turn On Time	t <sub>on</sub>	V <sub>IN</sub> =-12V V <sub>BB</sub> =3.0V  开关时间测试电路		50		ns
Turn Off Time	t <sub>off</sub>	V <sub>IN</sub> =12V V <sub>BB</sub> =-4.0V  开关时间测试电路		210		ns

电参数曲线图 / Electrical Characteristic Curve



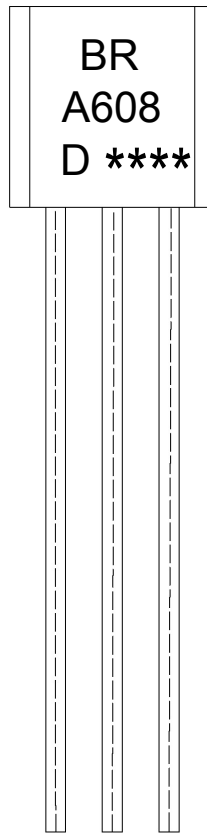
外形尺寸图 / Package Dimensions

T0-92

Unit: mm



印章说明 / Marking Instructions



说明：

BR: 为公司代码

A608 : 为型号代码

D: 为  $h_{FE}$  分档代码

\*\*\*\* : 为生产批号代码，随生产批号变化。

Note:

BR: Company Code.

A608: Product Type.

D:  $h_{FE}$  Classifications Symbol

\*\*\*\*: Lot No. Code,code change with Lot No.

**波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)**



说明：

- 1、预热温度 25 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 255±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

**耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions**

温度：270±5°C

时间：10±1 sec.

Temp:270±5°C

Time:10±1 sec

**包装规格 / Packaging SPEC.**

散件包装 / BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

编带包装 / AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

**使用说明 / Notices**