

2SA673(A)

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

与 2SC1213(A)互补。

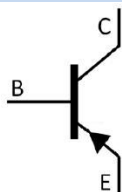
Complementary pair with 2SC1213(A).

用途 / Applications

用于低频放大。

Low frequency power amplifier.

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 _{FE} Classifications Symbol	B	C	D
h _{FE} Range	60~120	100~200	160~320

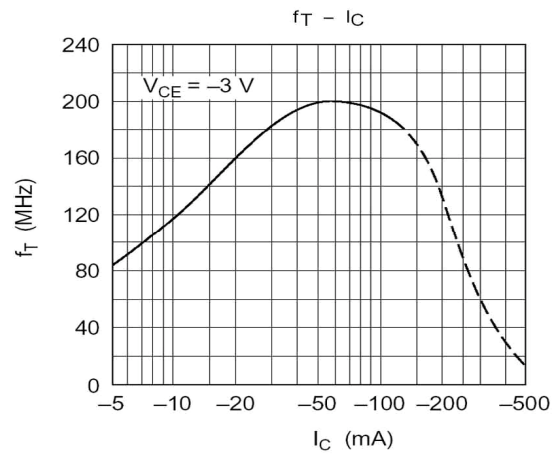
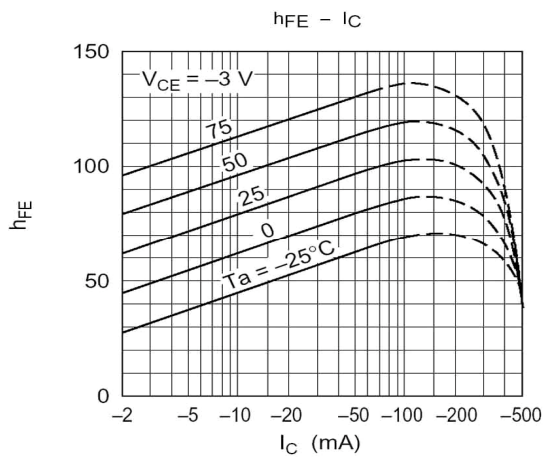
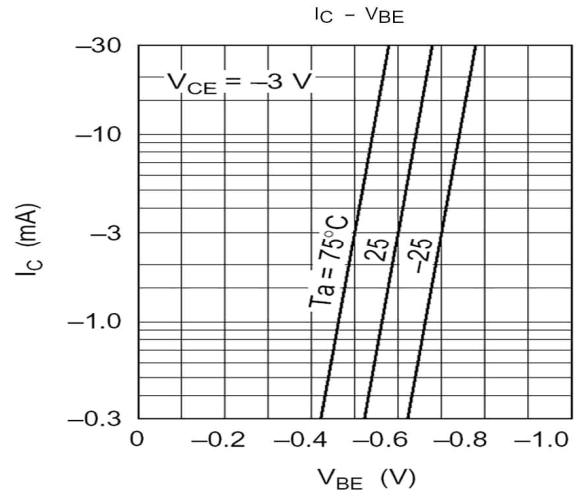
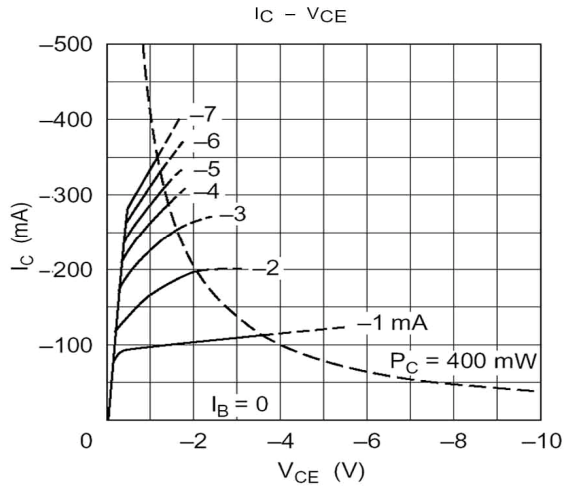
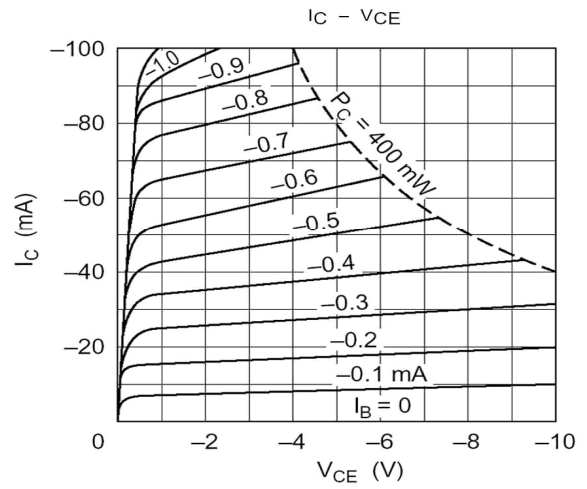
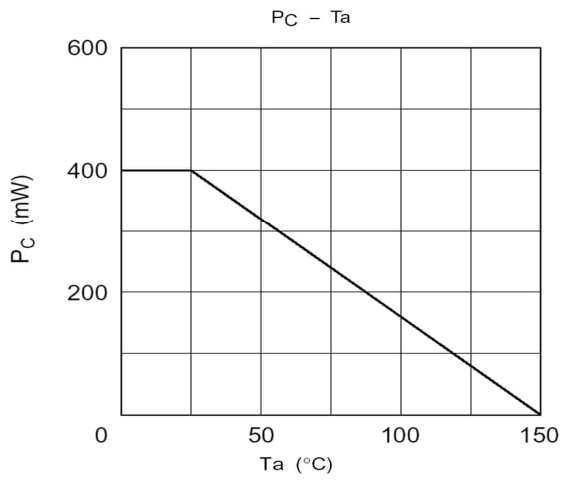
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	2SA673 -35	V
		2SA673A -50	
Collector to Emitter Voltage	V_{CEO}	2SA673 -35	V
		2SA673A -50	
Emitter to Base Voltage	V_{EBO}	-4.0	V
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-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 to Base Breakdown Voltage	V_{CBO}	$I_C=-10\mu A \quad I_E=0$	2SA673 -35			V
			2SA673A -50			
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0mA \quad I_B=0$	2SA673 -35			V
			2SA673A -50			
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\mu A \quad I_C=0$	-4.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-20V \quad I_E=0$			-0.5	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-3.0V \quad I_C=-10mA$	60		320	
	$h_{FE(2)}$	$V_{CE}=-3.0V \quad I_C=-500mA$	10			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-150mA \quad I_B=-15mA$		-0.2	-0.6	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-3.0V \quad I_C=-10mA$		-0.64		V

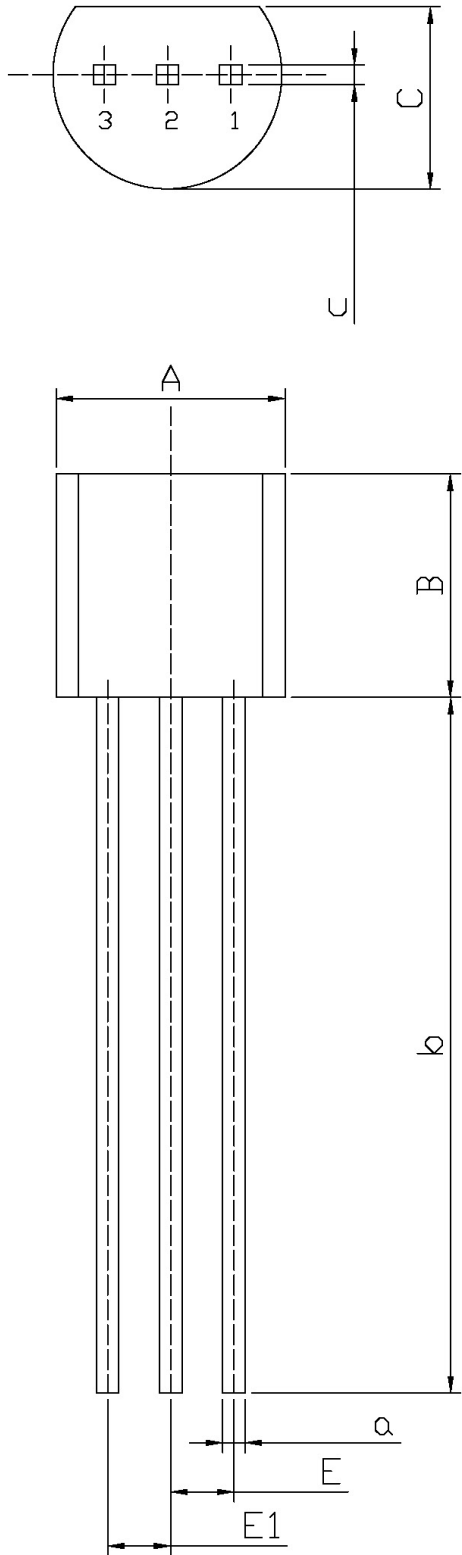
电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

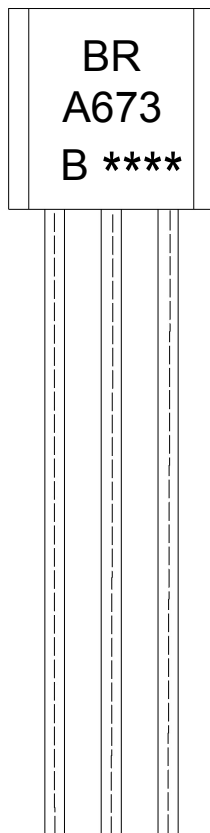
TO-92

Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.4	4.8
B	4.3	4.7
b	13	15
a	0.40	0.60
E	1.22	1.32
E1	1.22	1.32
C	3.4	3.8
c	0.30	0.50

印章说明 / Marking Instructions



说明：

BR: 为公司代码

A673 : 为型号代码

B: 为 h_{FE} 分档代码

**** : 为生产批号代码，随生产批号变化。

Note:

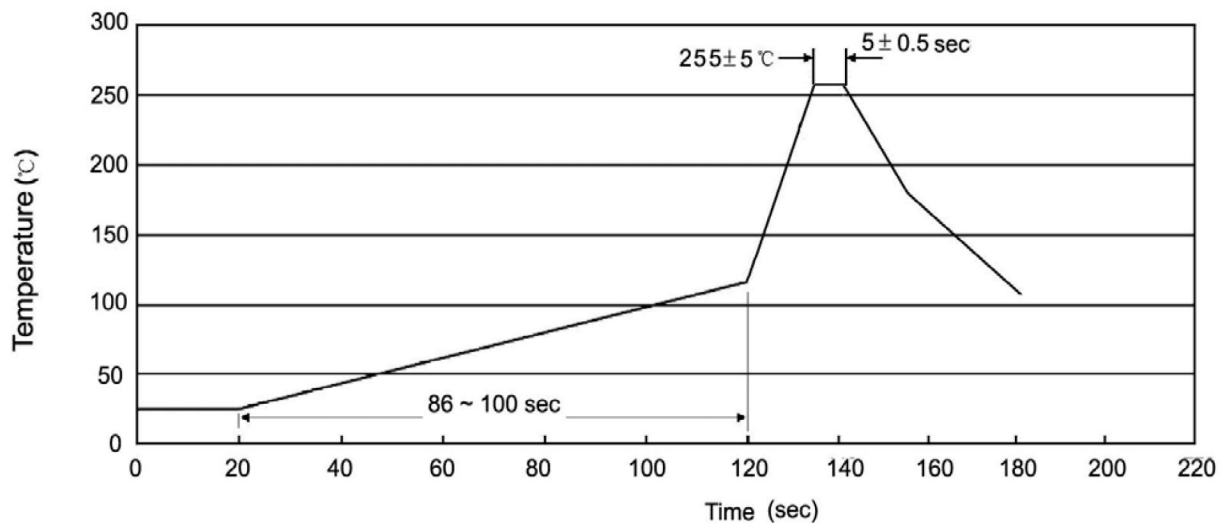
BR: Company Code.

A673: Product Type.

B: 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