

2SA608(K)

Rev.E Mar.-2016

/ Descriptions

TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

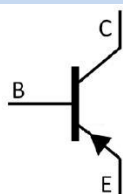
2SA608(K) SP NP

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

/ Applications

General- purpose AMP, switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

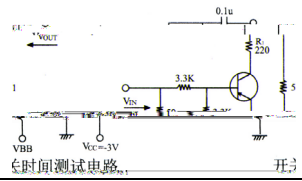
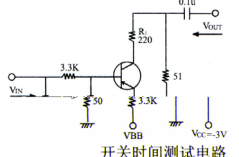
/ hFE Classifications & Marking

h _{FE} Classifications Symbol	D	E	F	G
h _{FE} Range	60~120	100~200	160~320	280~560

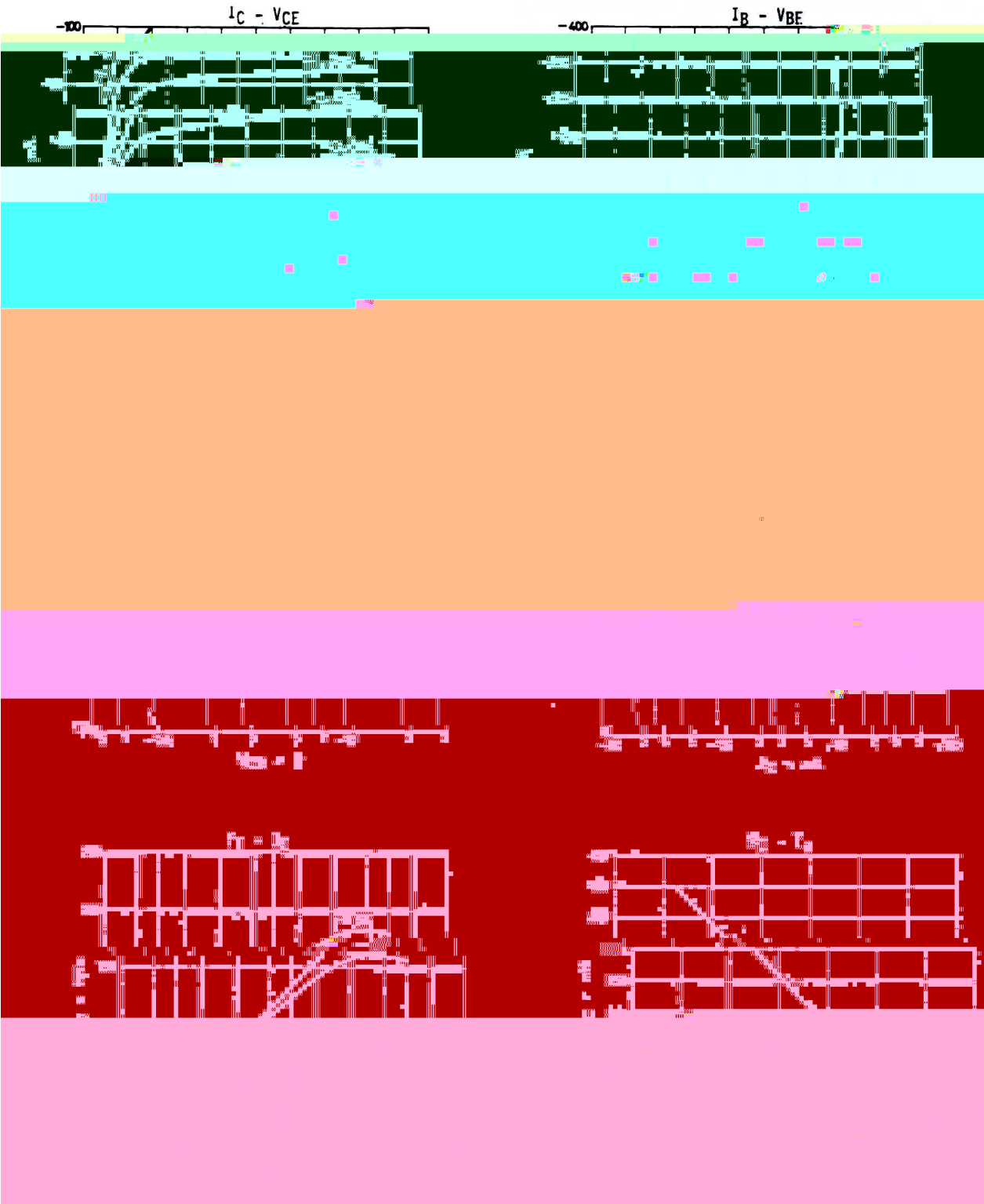
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	2SA608 -40	V
		2SA608K -55	
Collector to Emitter Voltage	V_{CEO}	2SA608 -30	V
		2SA608K -50	
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-25V$ $I_E=0$			-1.0	μA
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-4.0V$ $I_C=0$			-1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=-6.0V$ $I_C=-1.0mA$	60		560	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-50mA$ $I_B=-5.0mA$			-0.5	V
Gain Bandwidth Product	f_T	$V_{CE}=-6.0V$ $I_C=-10mA$		180		MHz
Output capacitance	C_{ob}	$V_{CB}=-6.0V$ $f=1.0MHz$		7.0		pF
Turn On Time	t_{on}	$V_{IN}=-12V$ $V_{BB}=3.0V$  开关时间测试电路		50		ns
Turn Off Time	t_{off}	$V_{IN}=12V$ $V_{BB}=-4.0V$  开关时间测试电路		210		ns

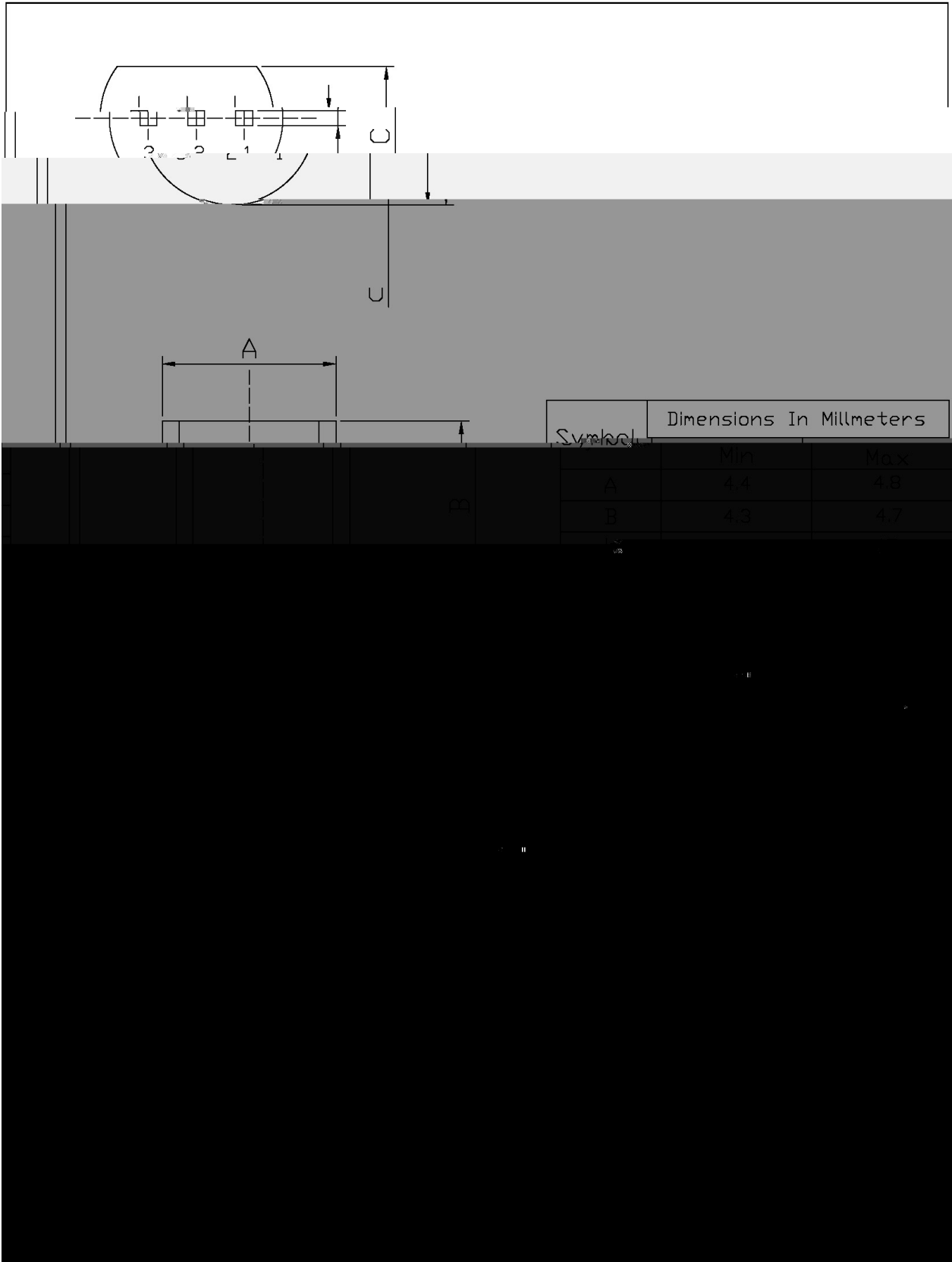
/ Electrical Characteristic Curve



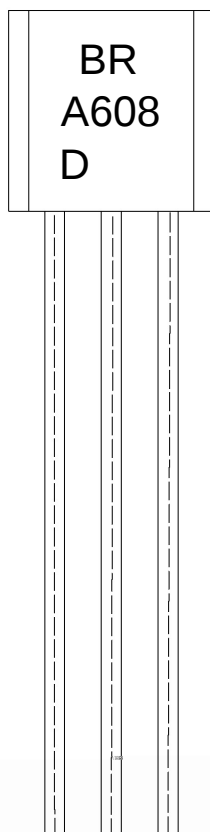
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

A608

D: h_{FE}

Note:

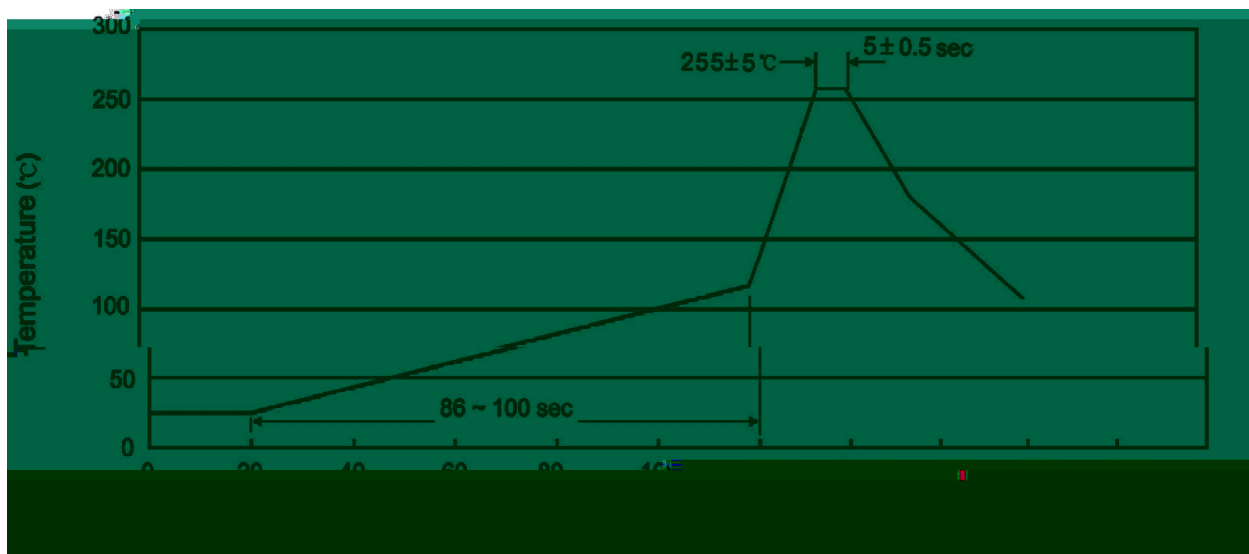
BR: Company Code.

A608: Product Type.

D: h_{FE} Classifications Symbol

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

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

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

/ Resistance to Soldering Heat Test Conditions

270±5 10±1 sec. Temp:270±5 Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只袋	袋盒	只盒	盒箱	只箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只纸带	纸带盒	纸带层盒	盒箱	只箱	盒	箱
							小箱 ,
							大箱

/ Notices