

**/ 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


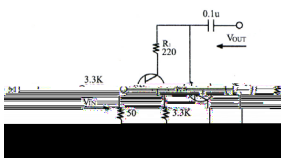
**/ hFE Classifications & Marking**

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

/ Absolute Maximum Ratings(Ta=25 )

Parameter	Symbol	Rating	Unit	
Collector to Base Voltage	V <sub>CBO</sub>	2SA608	-40	V
		2SA608K	-55	
Collector to Emitter Voltage	V <sub>CEO</sub>	2SA608	-30	V
		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		
Storage Temperature Range	T <sub>stg</sub>	-55 150		

/ Electrical Characteristics(Ta=25 )

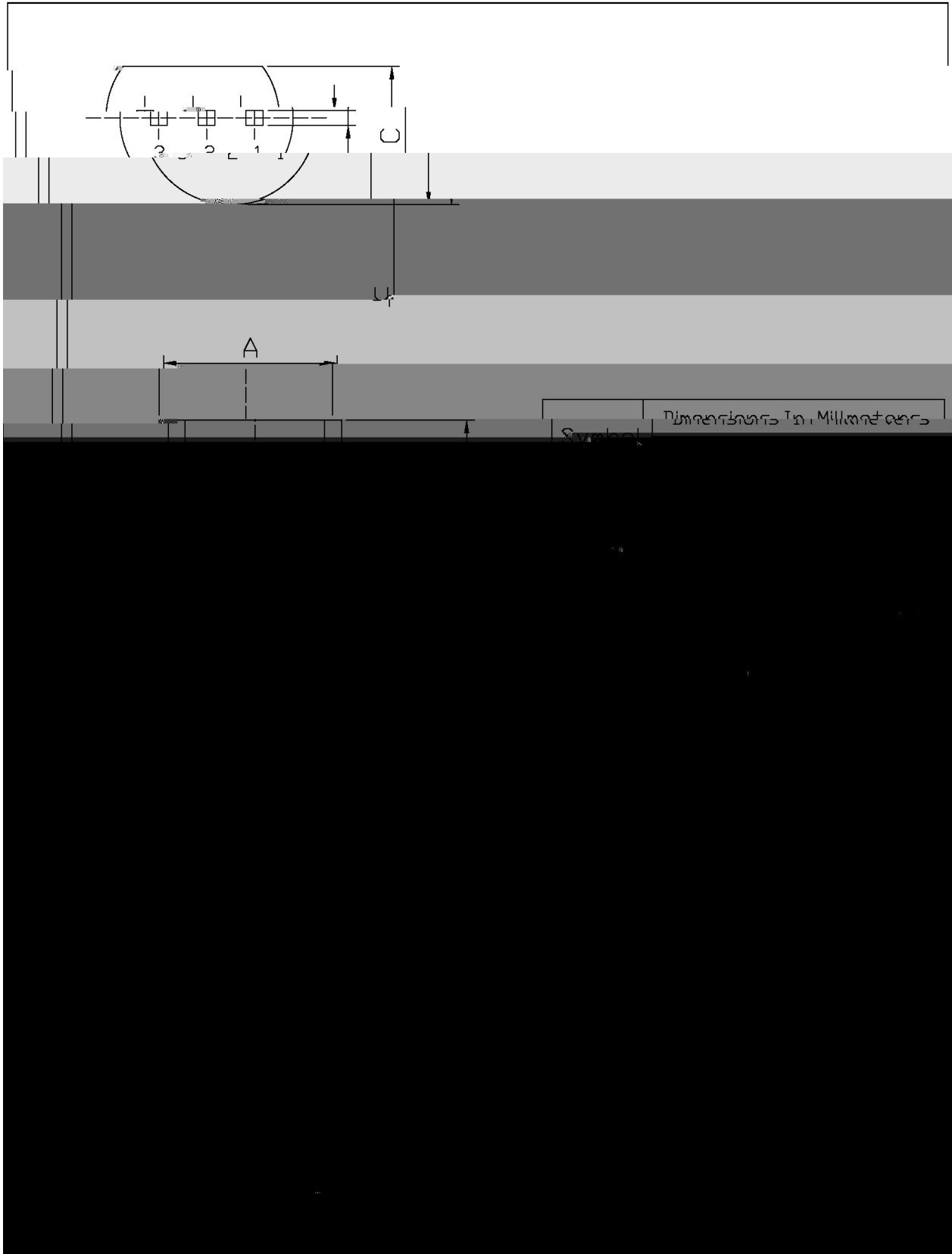
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-25V I <sub>E</sub> =0			-1.0	μA
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-4.0V I <sub>C</sub> =0			-1.0	μA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =-6.0V I <sub>C</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 		50		ns
Turn Off Time	t <sub>off</sub>	V <sub>IN</sub> =12V V <sub>BB</sub> =-4.0V 		210		ns



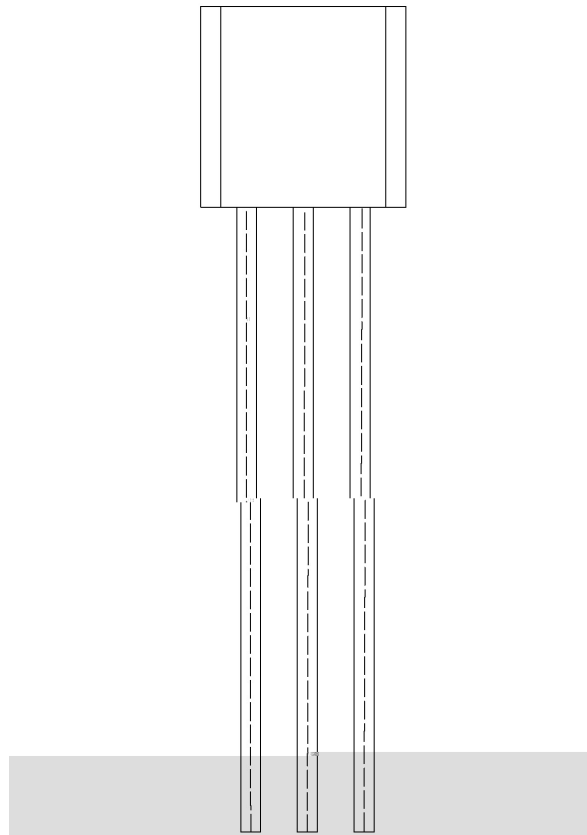
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



BR:

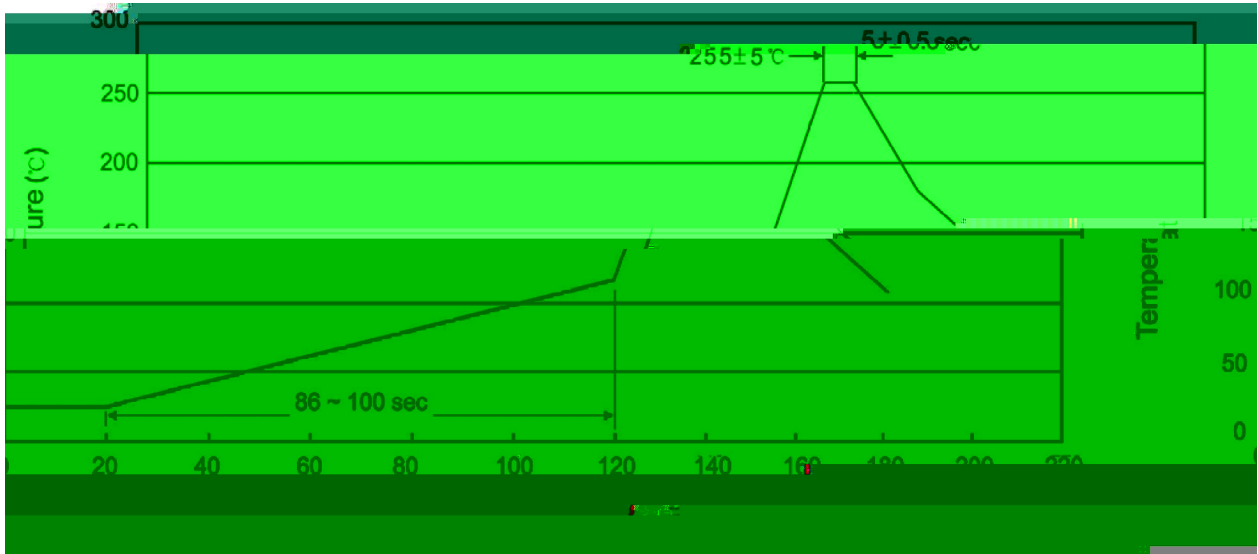
A608

D:

$h_{FE}$

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( ) / 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 314	0
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