

/ Descriptions

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

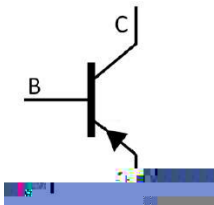
/ Features

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


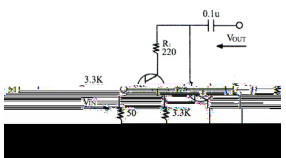
/ hFE Classifications & Marking

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		

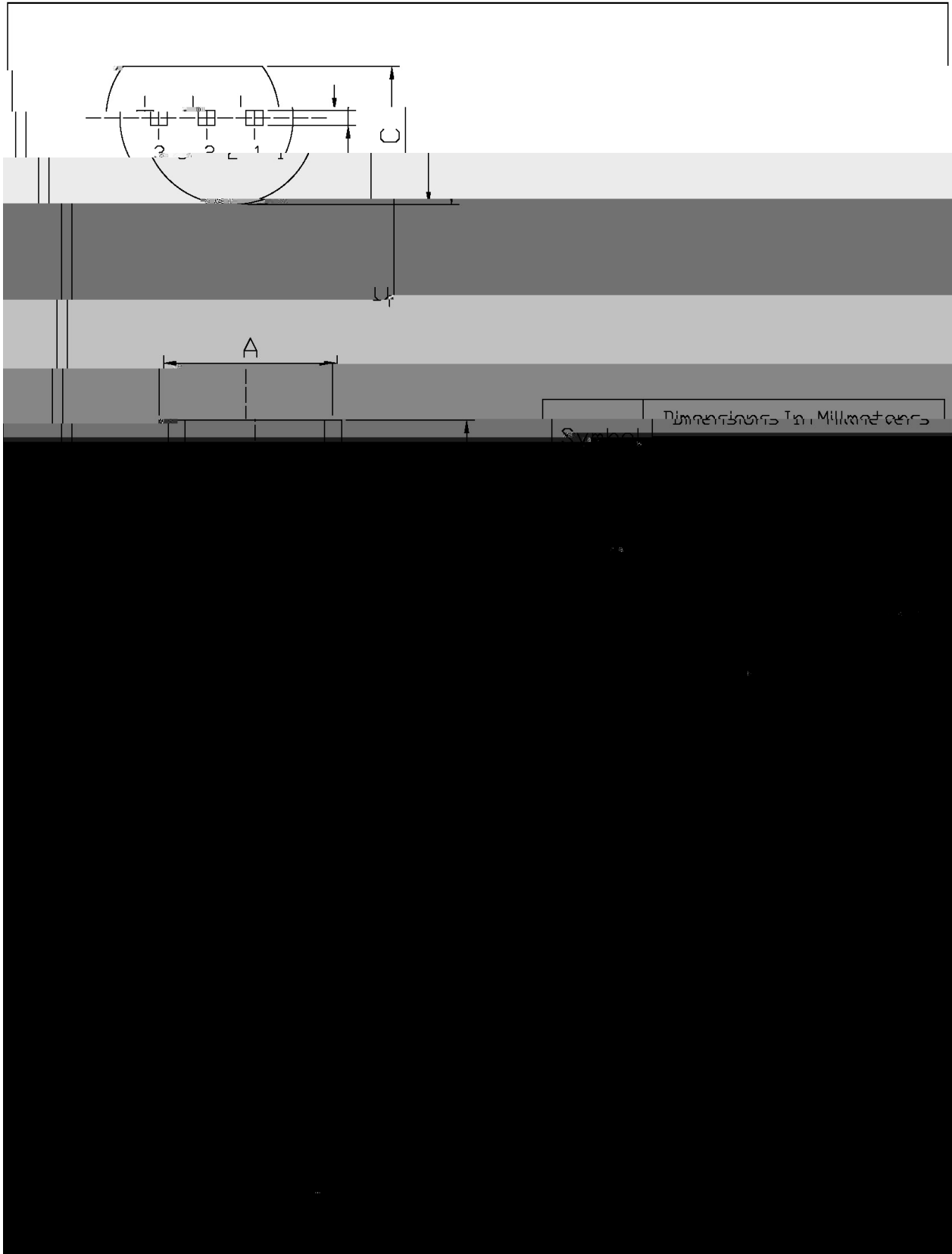
/ Electrical Characteristics(Ta=25)

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 		50		ns
Turn Off Time	t _{off}	V _{IN} =12V V _{BB} =-4.0V 		210		ns

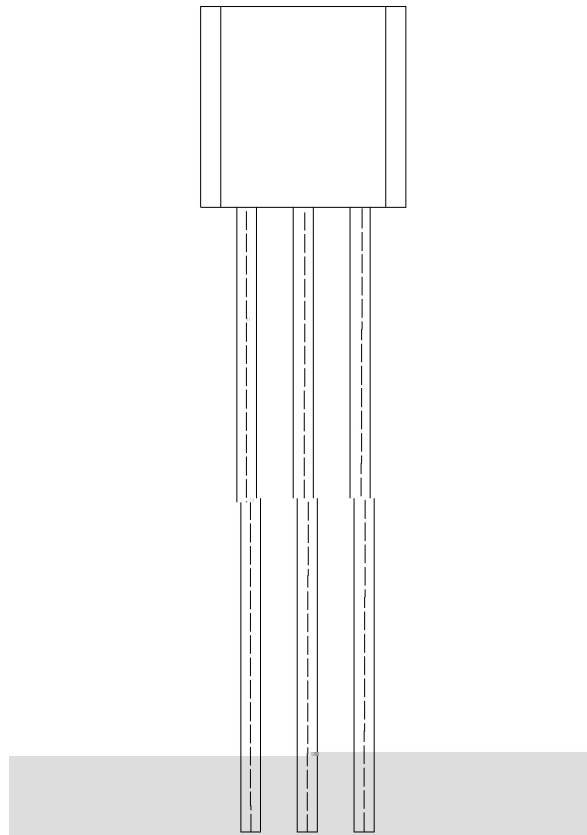
/ Package Dimensions

T0-92

Unit: mm



/ Marking Instructions



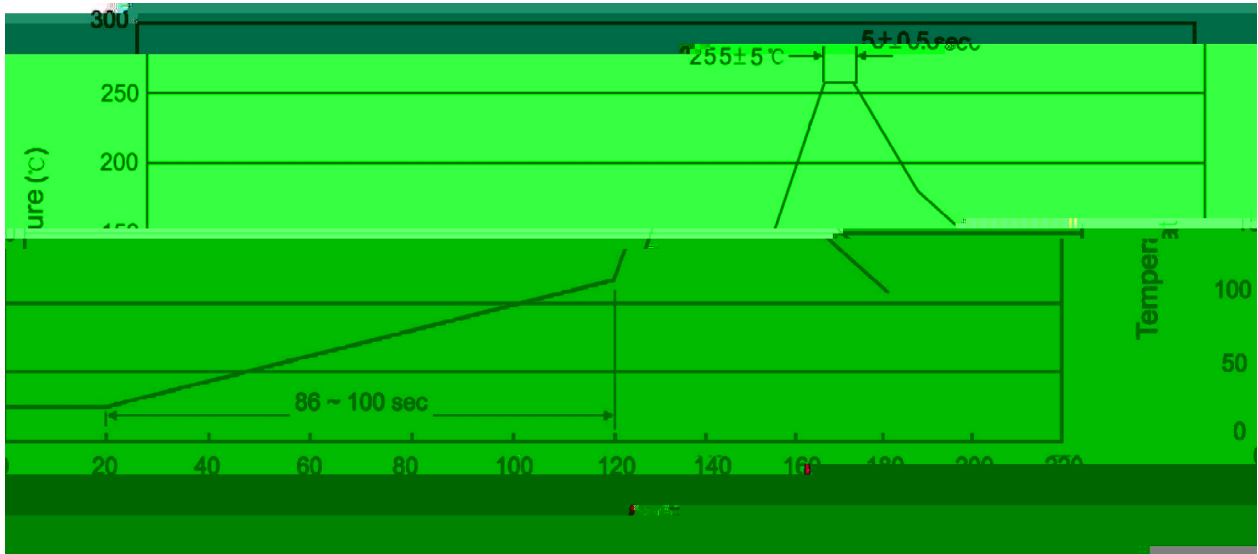
BR:

A608

D:

h_{FE}

() / 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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