

/ Descriptions

TO-92

PNP

Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

2SA608(K)

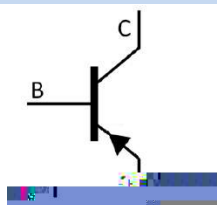
SP NP

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

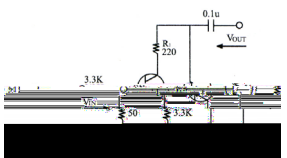
/ hFE Classifications & Marking

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	

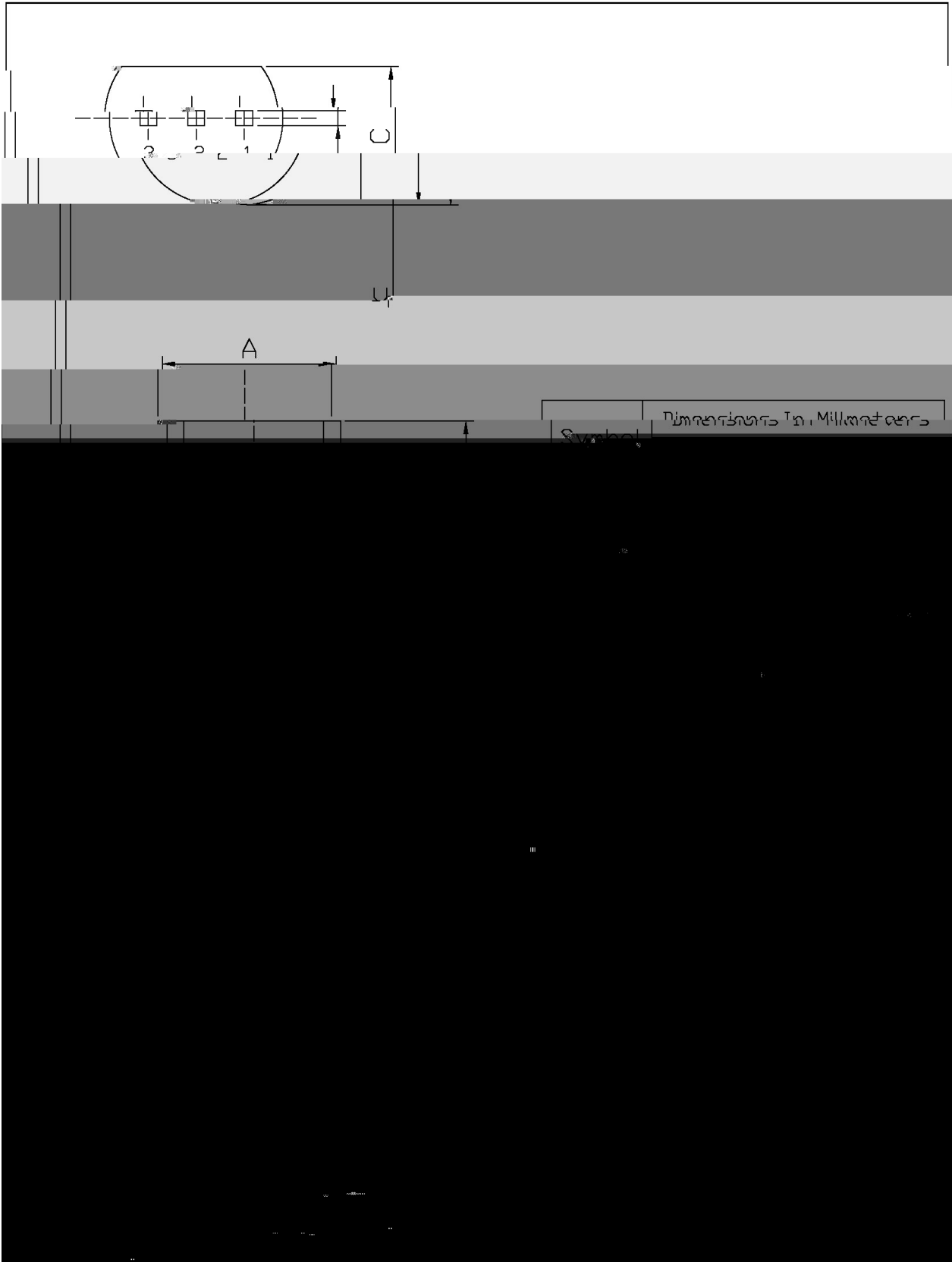
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-25V$ $I_E=0$			-1.0	A
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-4.0V$ $I_C=0$			-1.0	A
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

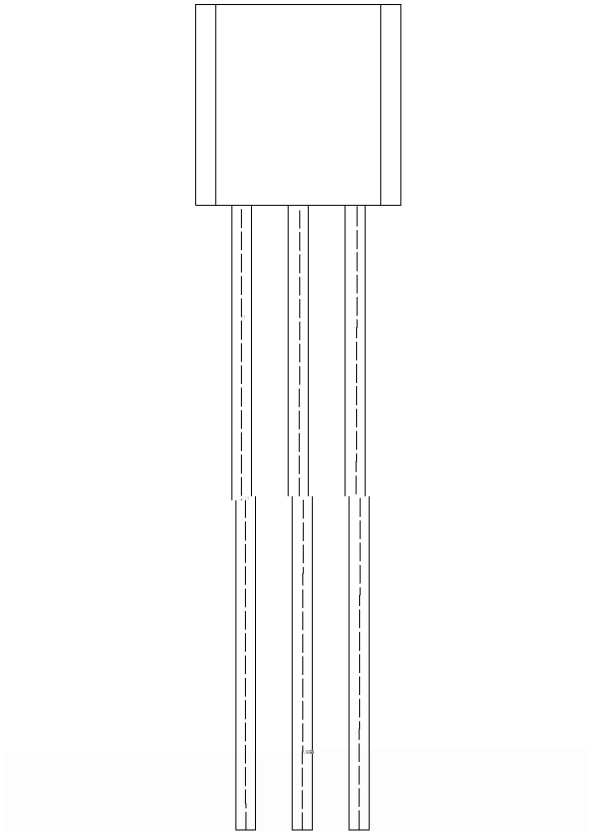
/ Package Dimensions

TO-92

Unit: mm



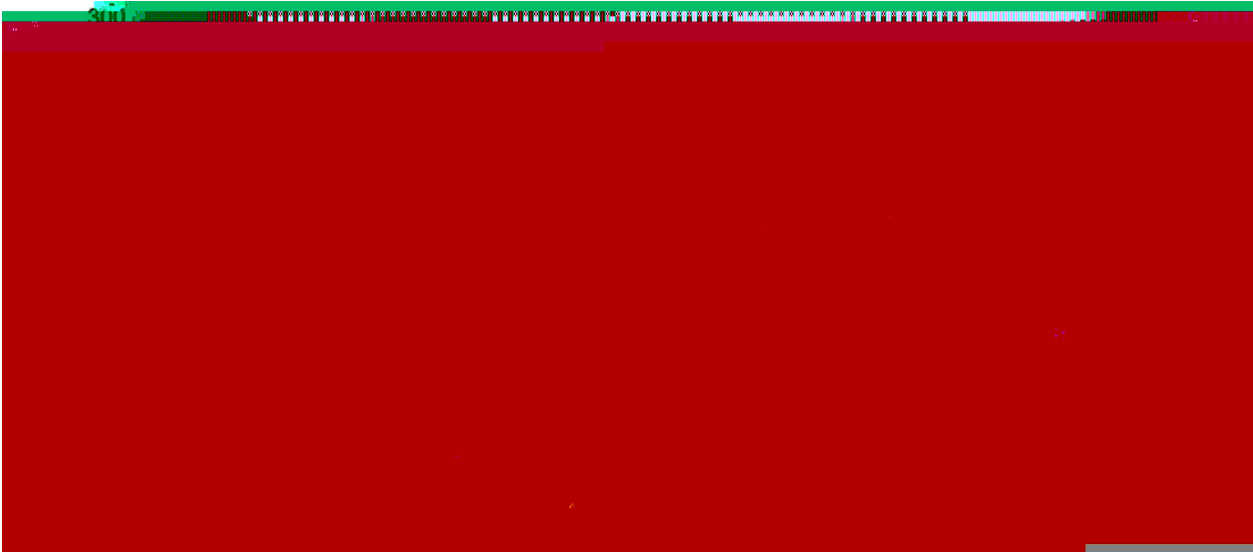
/ Marking Instructions



BR:
A608
D: h_{FE}

5 2

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



- 1

25 150

60 90sec;

2

255±5

5±0.5sec;

3

2 10 /sec.
- Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

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	Units 包装数量	Dimension 314	0
封装形式			