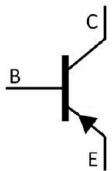


Rev.E Mar.-2016

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

3DG5609
Low saturation voltage, complementary pair with 3DG5609.

Power amplifier and switching electronic application, governor applications.



PIN1 Base PIN 2 Collector PIN 3 Emitter

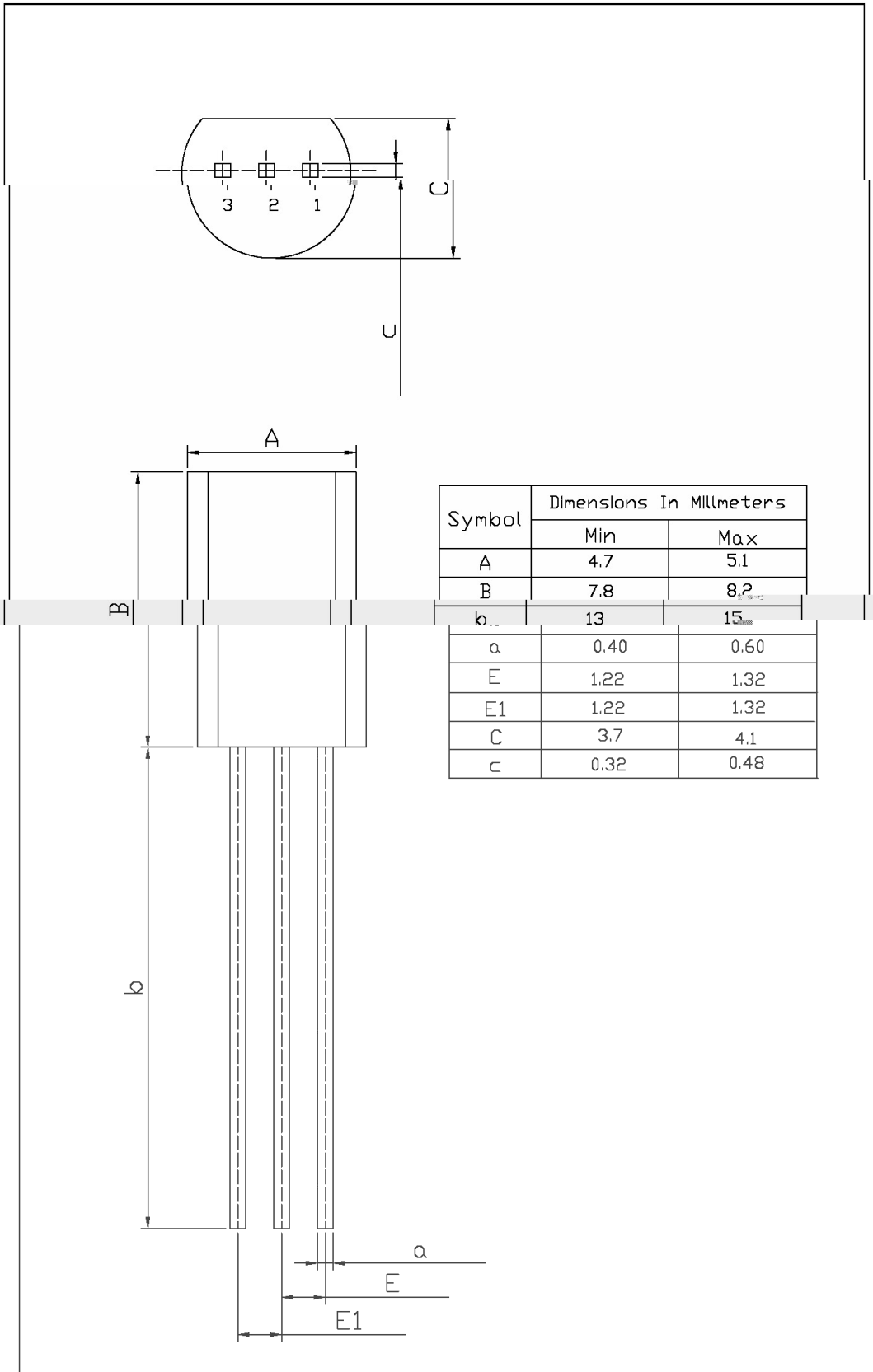
h_{FE} Classifications

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-25	V
Collector to Emitter Voltage	V_{CEO}	-20	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current (DC)	I_C	-1.0	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

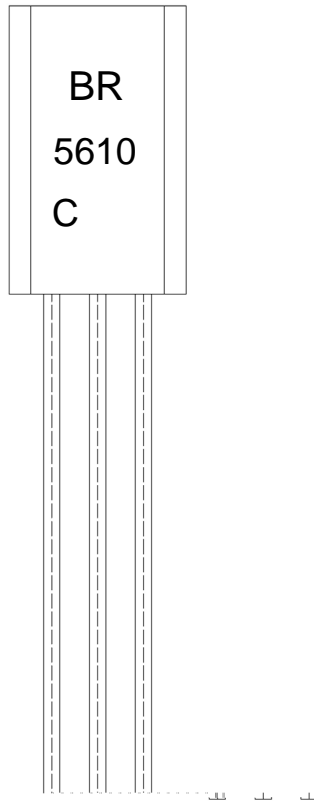
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=-10\text{ A}$ $I_E=0$	-25			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-1.0\text{mA}$ $I_B=0$	-20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=-10\text{ A}$ $I_C=0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-25\text{V}$ $I_E=0$			-1.0	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0\text{V}$ $I_C=0$			-1.0	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-2.0\text{V}$ $I_C=-0.5\text{A}$	60		240	
	$h_{FE(2)}$	$V_{CE}=-2.0\text{V}$ $I_C=-1.0\text{A}$	30			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-800\text{mA}$ $I_B=-80\text{mA}$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-800\text{mA}$ $I_B=-80\text{mA}$			-1.2	V
Transition Frequency	f_T	$V_{CE}=-2.0\text{V}$ $I_C=-500\text{mA}$	80			MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		15		pF

TO-92LM

Unit: mm



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.7	5.1
B	7.8	8.2
b	13	15
a	0.40	0.60
E	1.22	1.32
E1	1.22	1.32
C	3.7	4.1
c	0.32	0.48



BR:

5610

C: h_{FE}

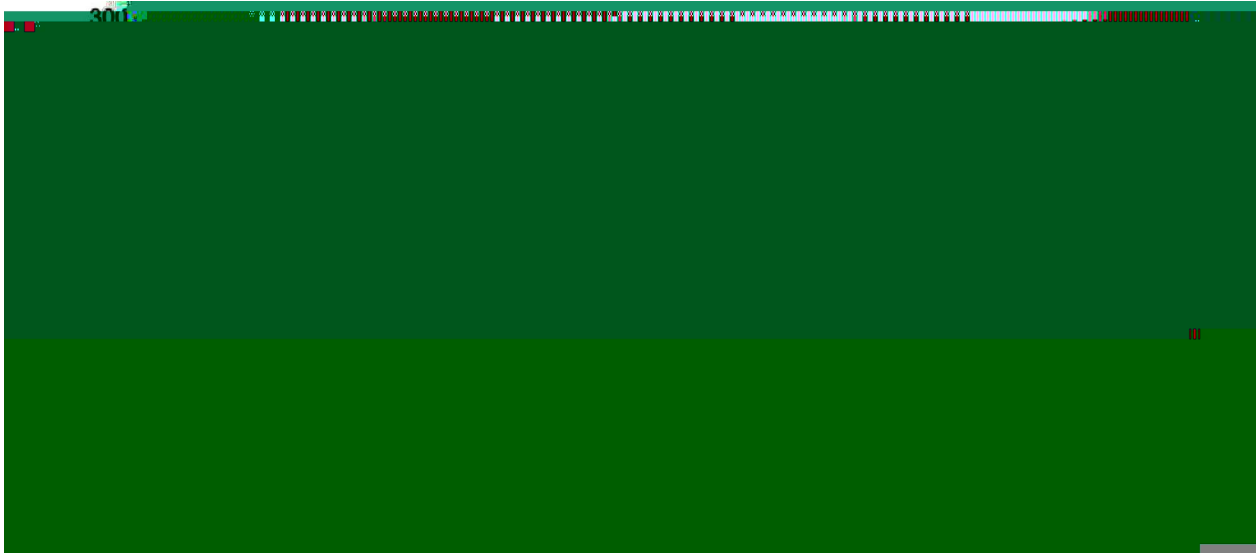
Note:

BR: Company Code.

5610: Product Type.

C: h_{FE} Classifications Symbol

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



- | | | | | | | |
|---|-------|-----|-----------|--------|---|--------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | Note: | 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. | |

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

/ BULK

Package Type	Units					Dimension		(unit mm3)

/ AMMO

Package Type	Units					Dimension		(unit mm3)