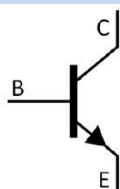


Rev.A Jul.-2017

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

 P_C I_C h_{FE} 3CG9012
 High P_C and I_C , excellent h_{FE} linearity, complementary pair with 3DG 9012.

Amplifier of portable radios in class B push-pull operation.



PIN1 Base PIN 2 Collector PIN 3 Emitter

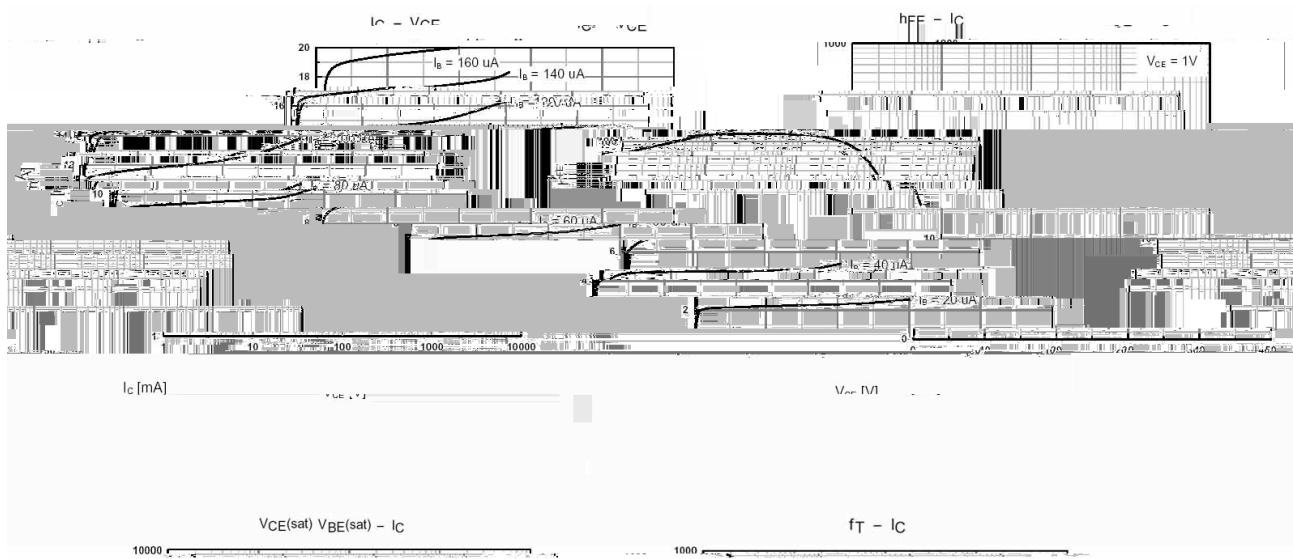
h_{FE} Classifications Symbol	D	E	F	G	H	I
h_{FE} Range	64~91	78~112	96~135	112~166	144~202	188~276

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	500	mA
Base Current - Continuous	I_B	100	mA
Collector Power Dissipation	P_C	625	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}	$I_C=0.1mA$ $I_E=0$	40			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$ $I_B=0$	20			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=0.1mA$ $I_C=0$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=25V$ $I_E=0$			0.1	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=3.0V$ $I_C=0$			0.1	A

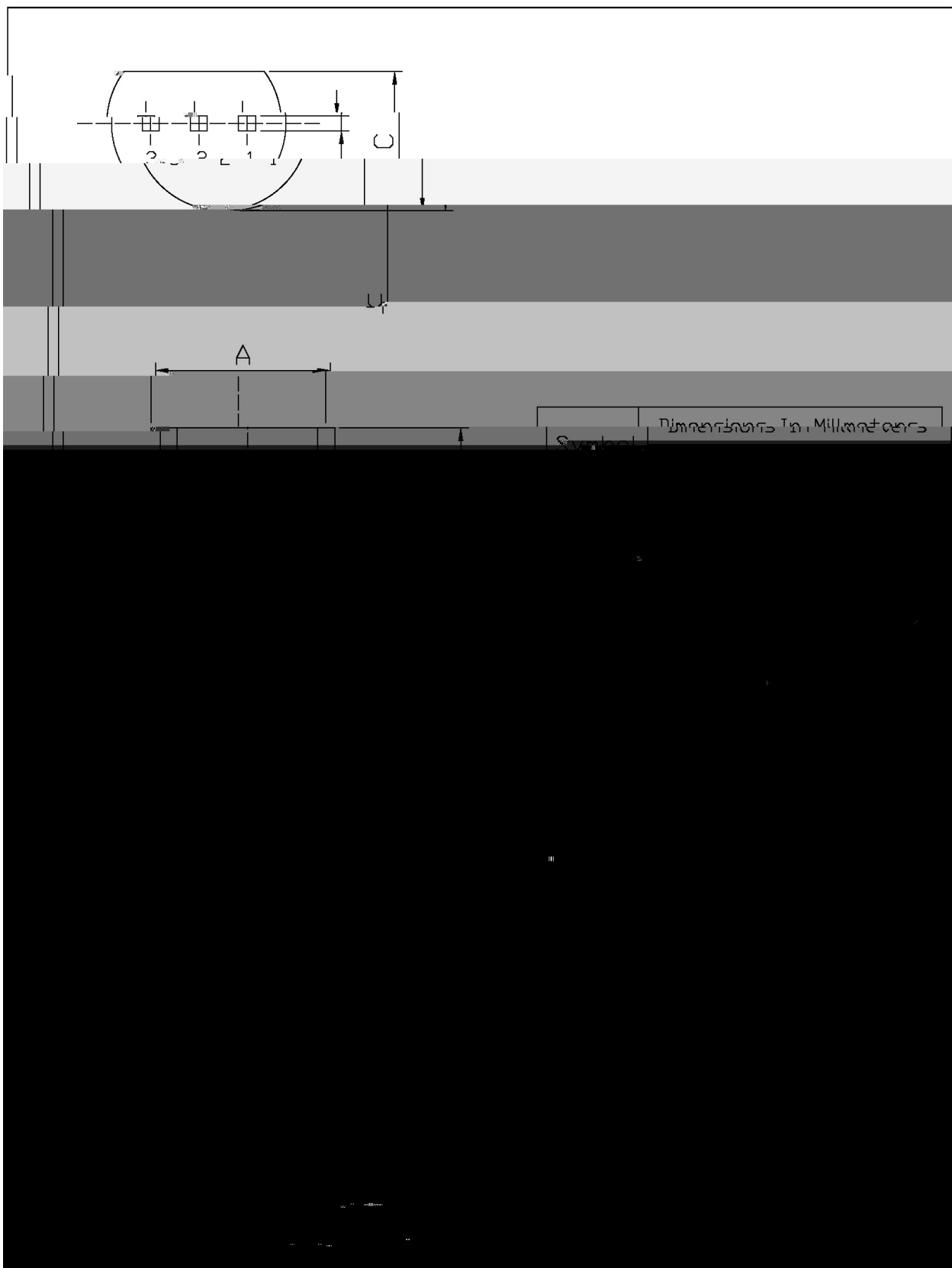
DC Current Gain

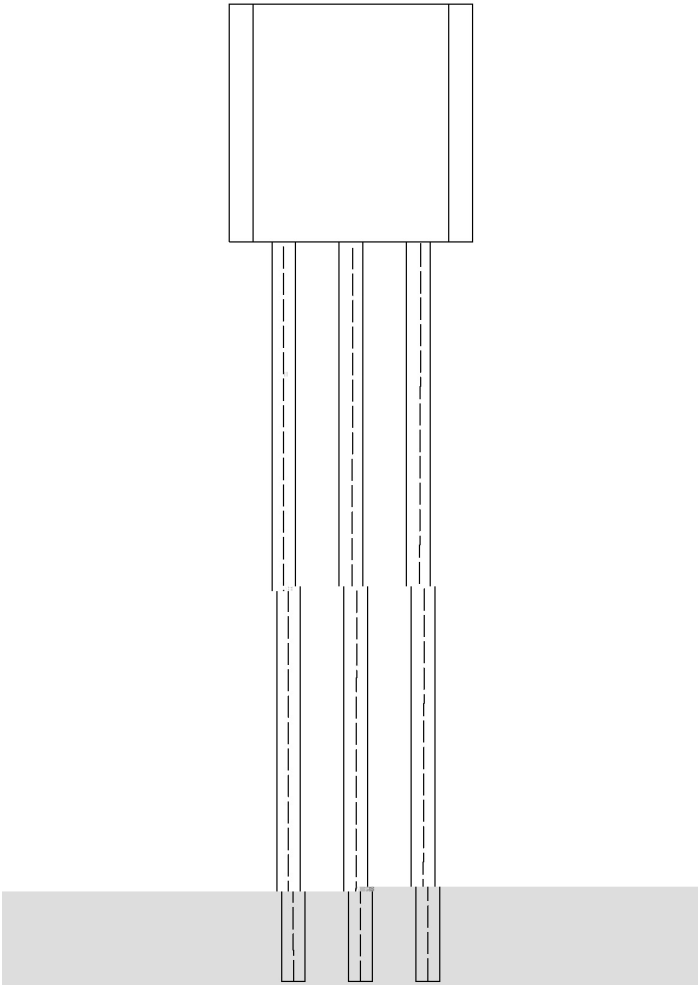
 $h_{FE(1)} \quad V = 3.0V \quad 0 \quad T_D \quad 5 \quad T_m \quad 64 \quad 0.47998 - 5$



T0-92

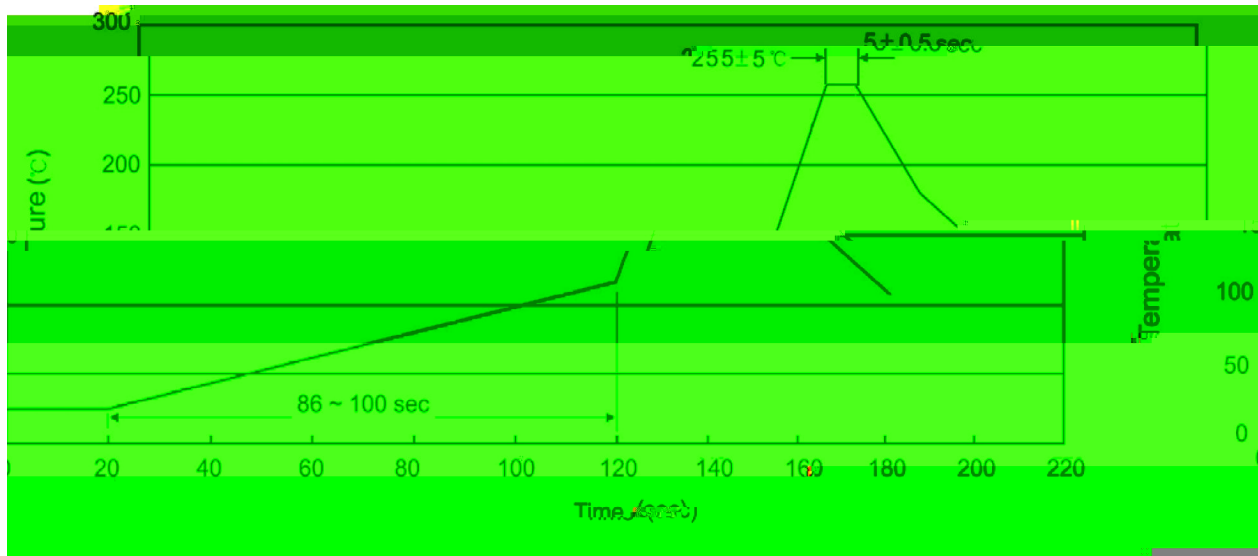
Unit: mm





9013

D: h_{FE}



Note:

1 25 150 60 90sec;

1.Preheating:25~150