

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

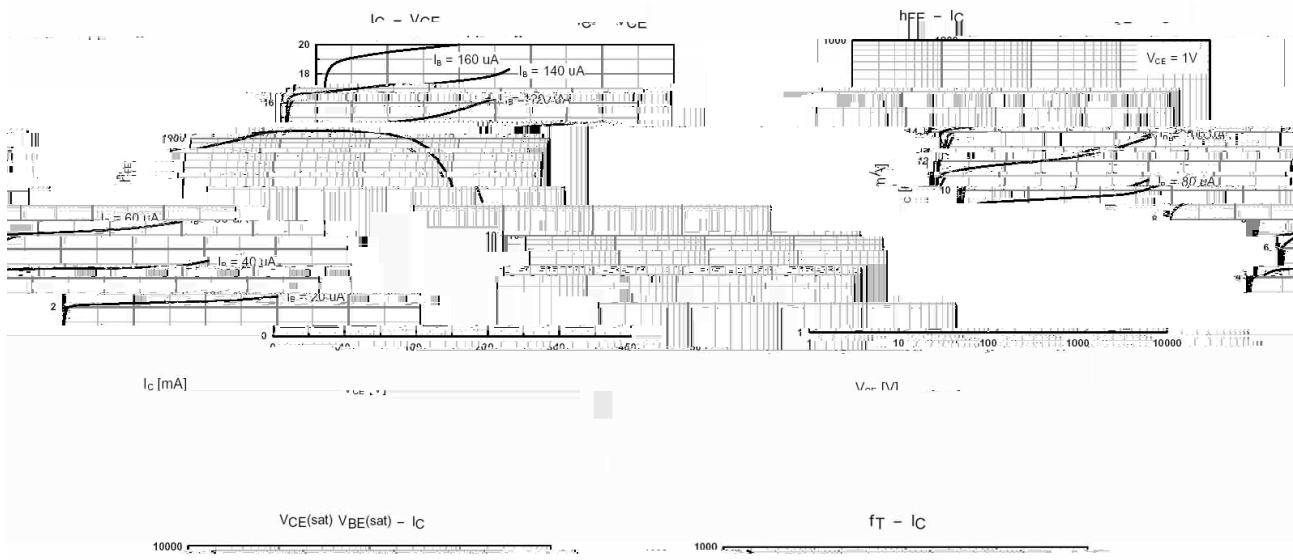
$h_{FE}$ Classifications Symbol	D	E	F	G	H	I
$h_{FE}$ Range	64~91	78~112	96~135	112~166	144~202	188~276

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

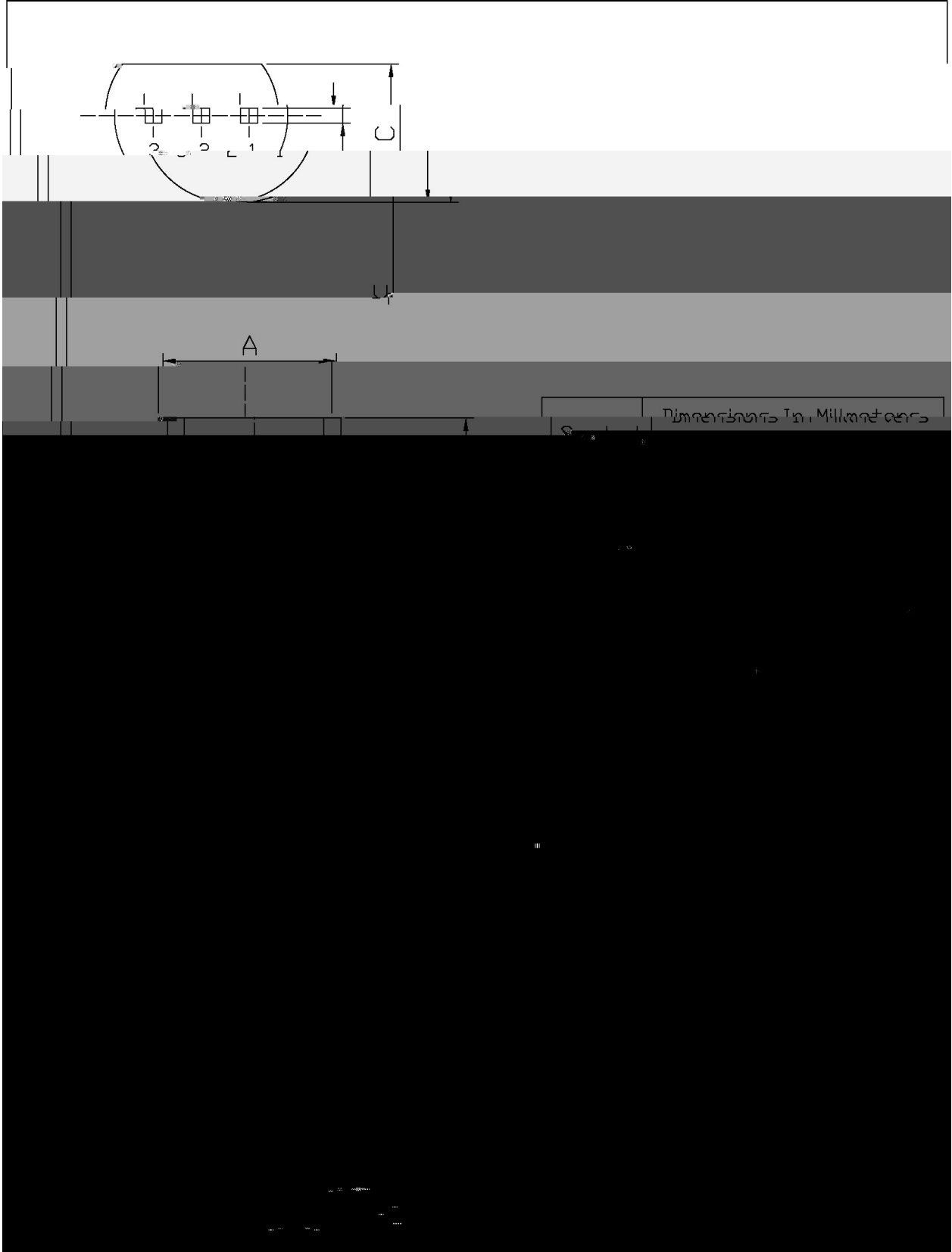
DC Current Gain

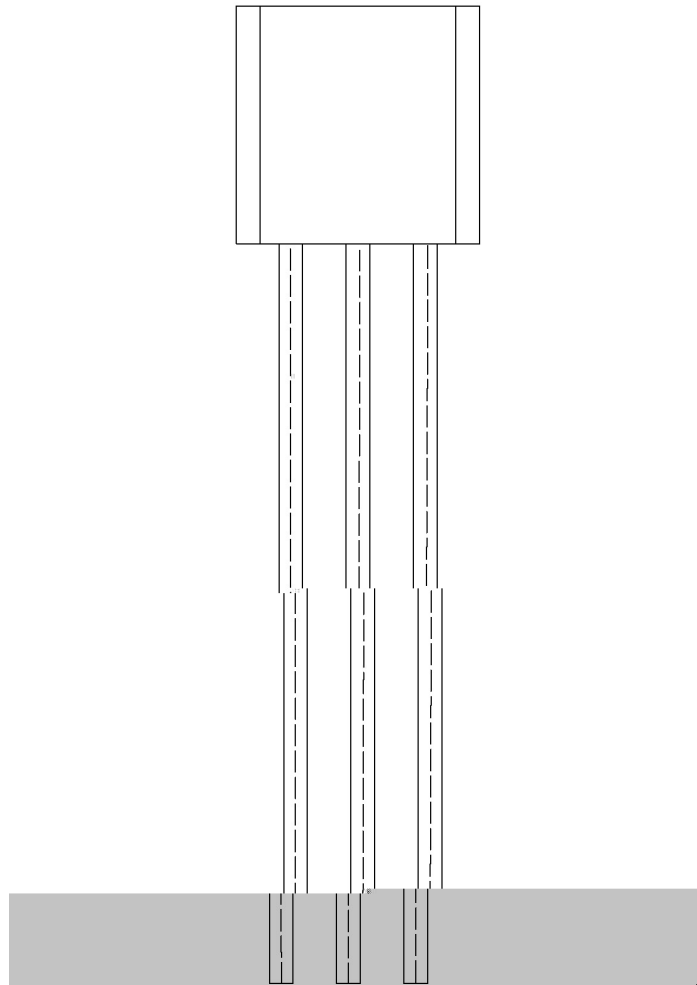
 $h_{FE(1)}$   $V = 3.0V$   $0 T D 5 T m 6 4 0 . 4 7 9 9 8 - 5$



T0-92

Unit: mm

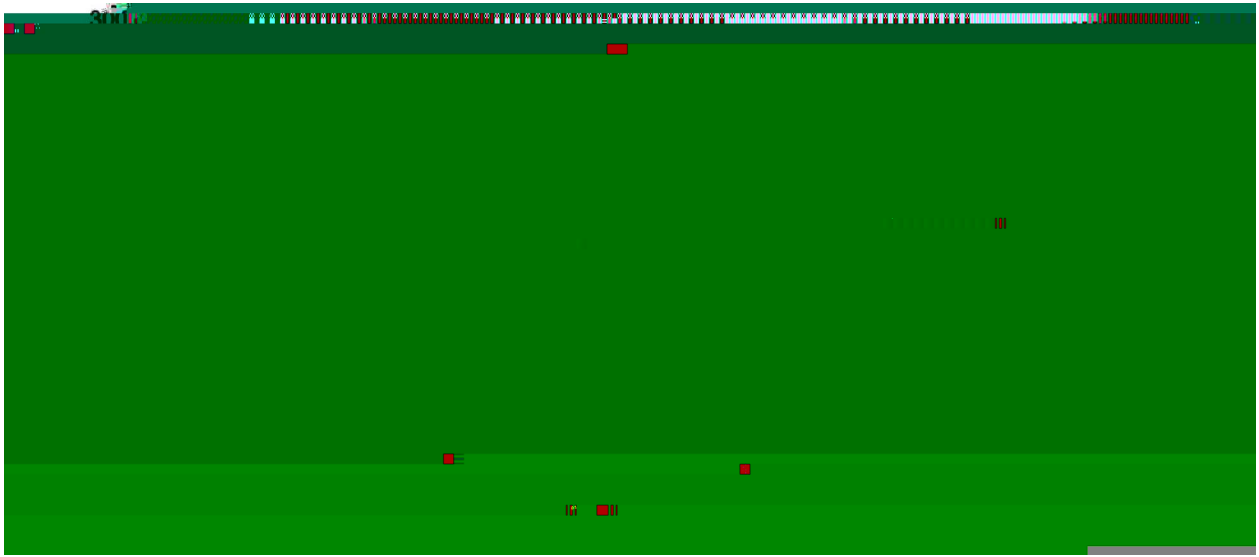




9013

D:  $h_{FE}$

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1            25   150            60   90sec;

Note:  
1.Preheating:25~150