

2N2907

Rev. G .Aug.-2018

/ Descriptions

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

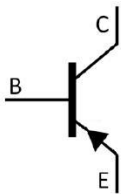
/ Features

Low Leakage current, Low collector saturation voltage.

/ Applications

General amplifier.

/ Equivalent Circuit



/ Pinning



PIN1 Collector PIN 2 Base PIN 3 Emitter

/ hFE Classifications & Marking

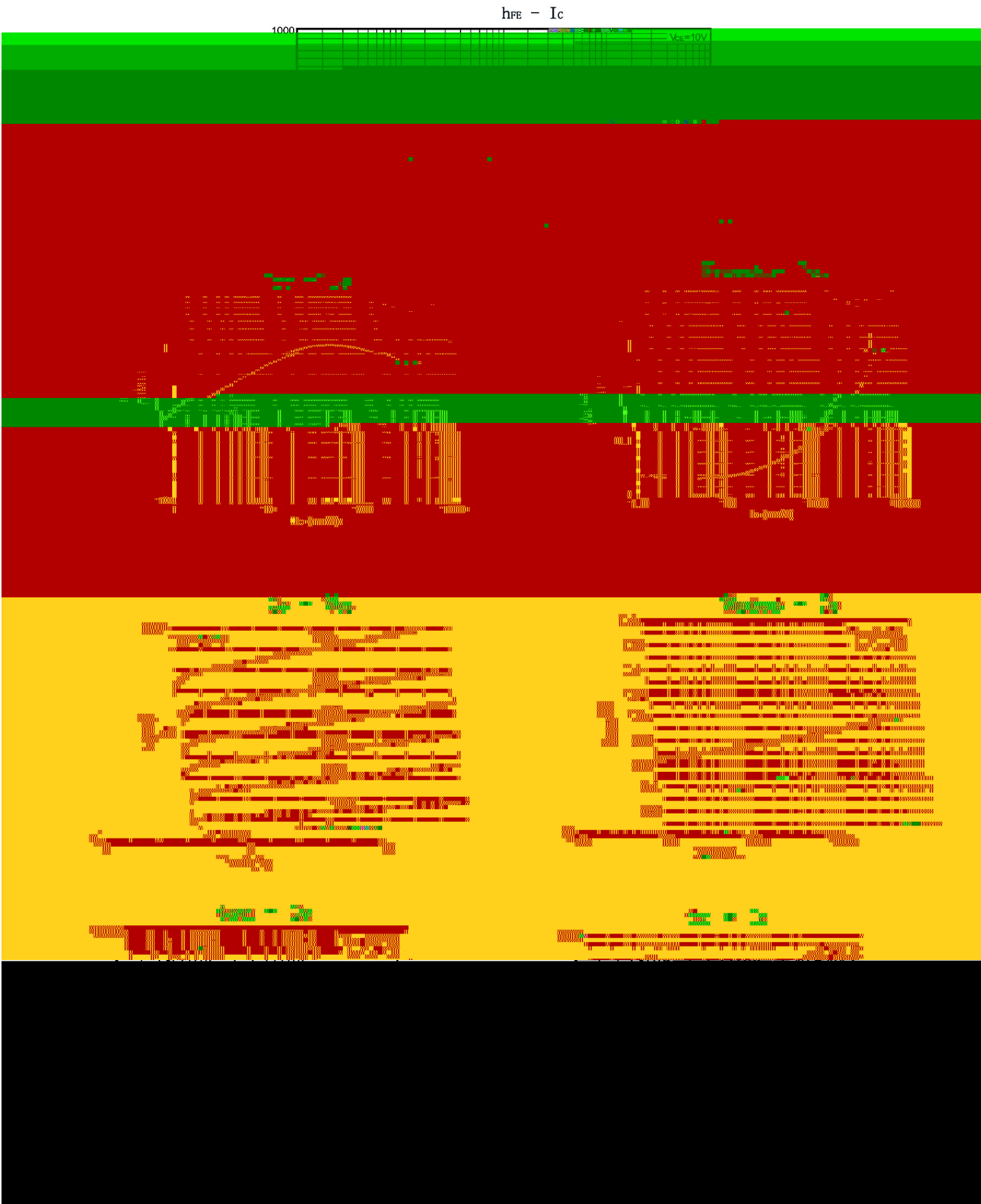
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-40	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Continuous Current	I_C	-600	mA
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	V_{CBO}	$I_E=0$	-60			V
Collector to Emitter Breakdown	V_{CEO}	$I_C=-1.0mA, I_B=0$	-40			V
Emitter to Base Breakdown	V_{EBO}	$I_E=-10\mu A, I_C=0$	-5.0			V
Collector Off Current	I_{CBO}	$V_{CB}=-50V, I_E=0$			-0.02	μA
Current Gain	$h_{FE(1)}$	$V_{CE}=-10V, I_C=-150mA^*$	100		300	
	$h_{FE(2)}$	$V_{CE}=-10V, I_C=-500mA^*$	30			
	$h_{FE(3)}$	$V_{CE}=-10V, I_C=-10mA$	75			
	$h_{FE(4)}$	$V_{CE}=-10V, I_C=-1.0mA$	50			
	$h_{FE(5)}$	$I_C=-10mA$	35			5822.9(I)TJ7
Base-Emitter Saturation Voltage		$I_C=-500mA, I_B=-15mA$			-0.4	V
		$I_C=-500mA, I_B=-50mA$			-1.6	V

Base-Emitter Saturation Voltage

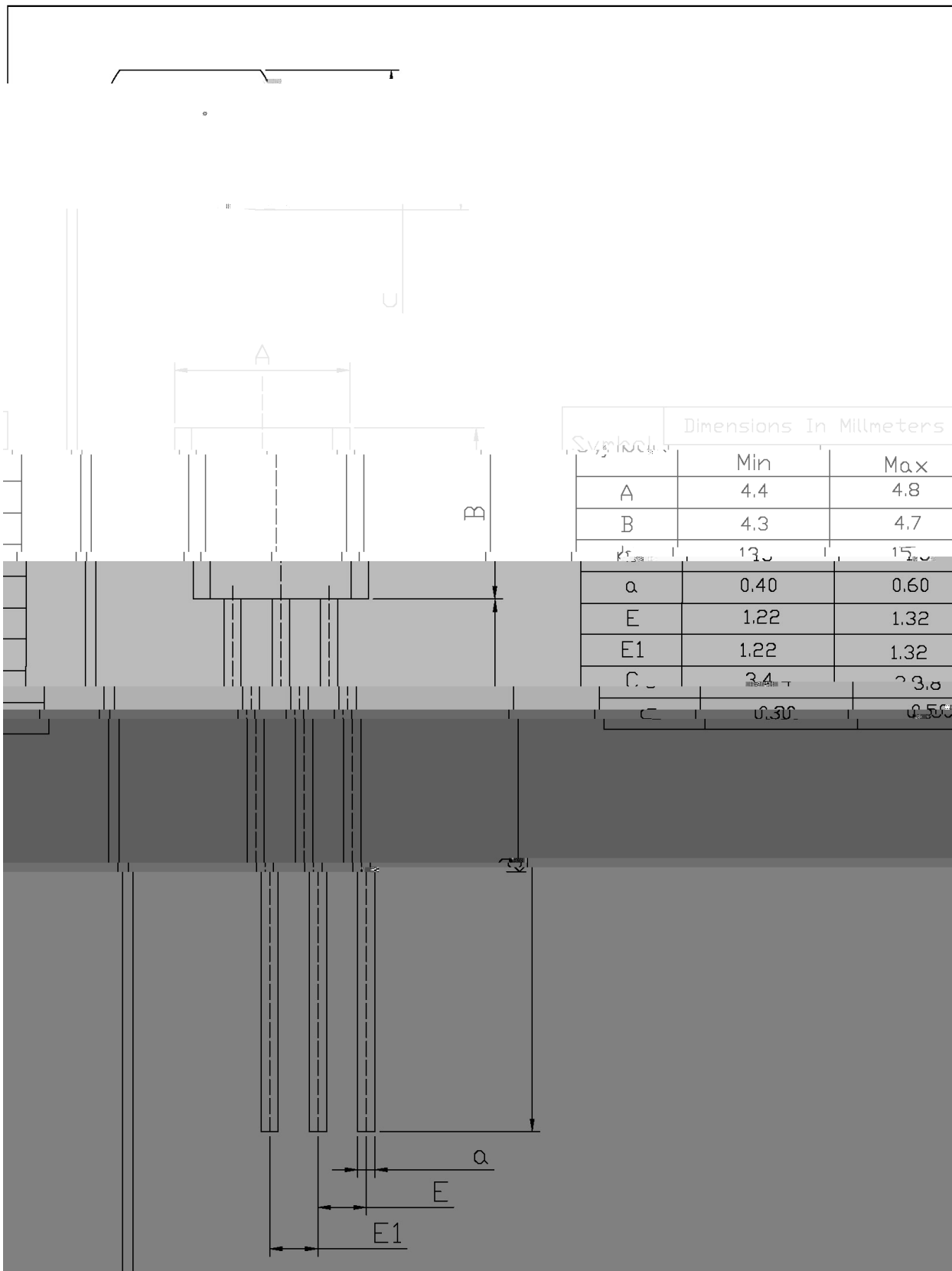
/ Electrical Characteristic Curve



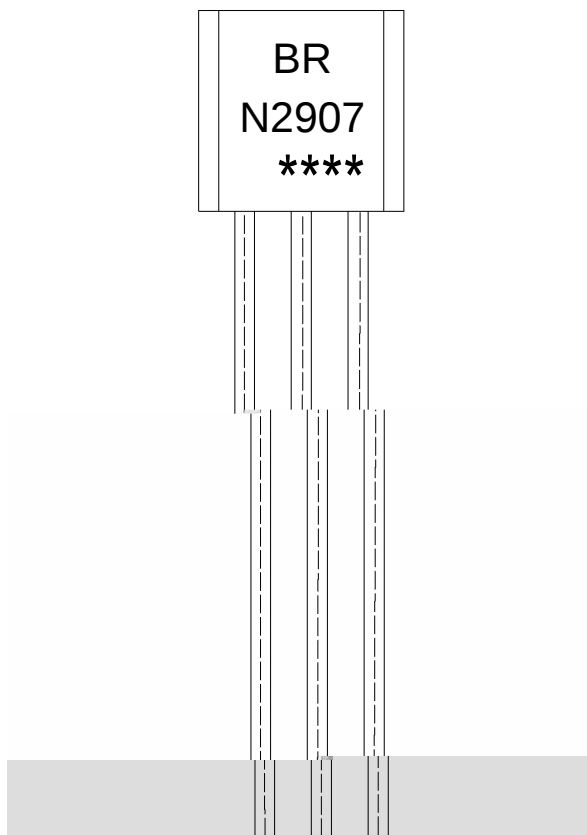
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

N2907

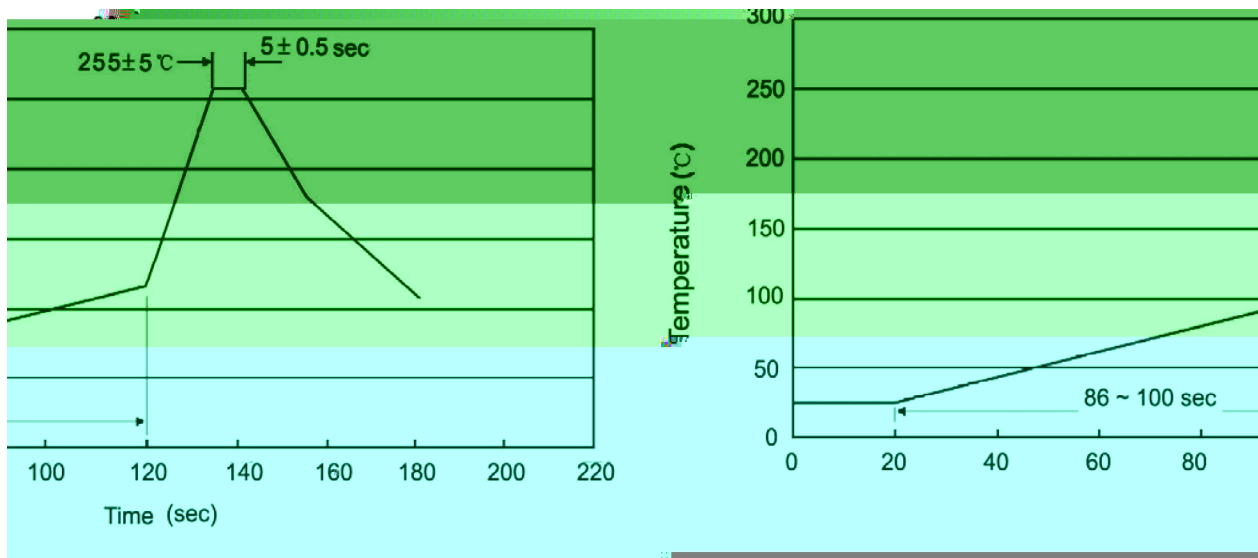
Note:

BR: Company Code.

N2907: Product Type.

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

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



Note:

- 1 25 150 60 90sec;
- 2 255±5 5±0.5sec;
- 3 2 10 /sec.

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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带层/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

/ Notices