

/ Descriptions

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

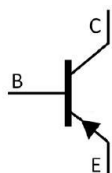
/ Features

， ， 2SC2655
Low collector saturation voltage high speed switching time, complementary pair with 2SC2655.

/ Applications

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Power amplifier and switching applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

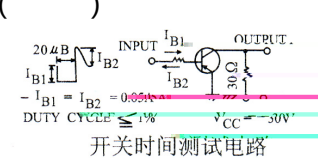
/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	O	Y
h_{FE} Range	70~140	120~240

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-2.0	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

/ Electrical Characteristics(Ta=25)

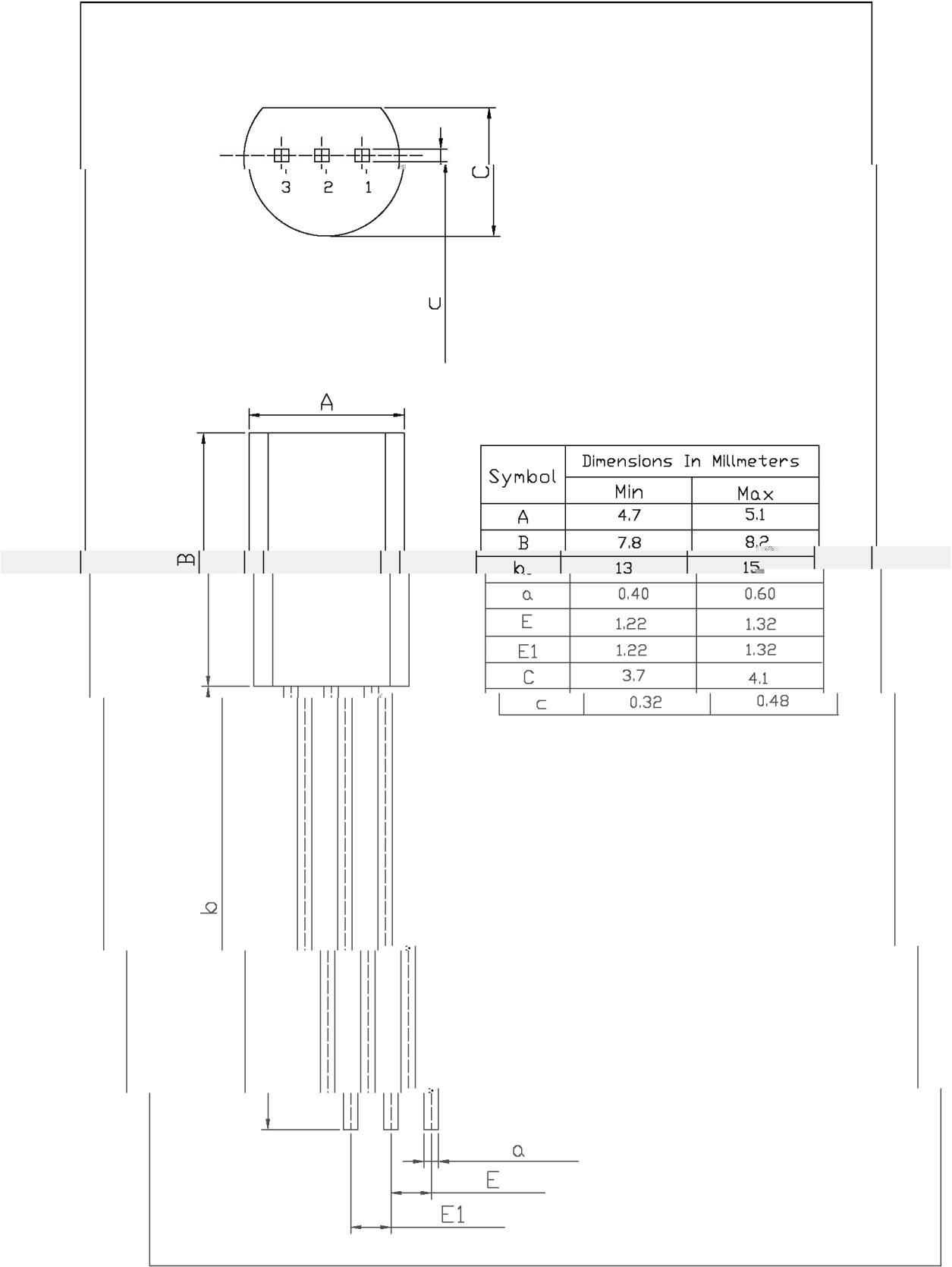
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C = -10mA$ $I_B = 0$	-50			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -50V$ $I_E = 0$			-1.0	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -5.0V$ $I_C = 0$			-1.0	A
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2.0V$ $I_C = -0.5A$	70		240	
	$h_{FE(2)}$	$V_{CE} = -2.0V$ $I_C = -1.5A$	40			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1.0A$ $I_B = -0.05A$			-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -1.0A$ $I_B = -0.05A$			-1.2	V
Transition Frequency	f_T	$V_{CE} = -2.0V$ $I_C = -0.5A$	50	100		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V$ $I_E = 0$ $f = 1.0MHz$			40	pF
Turn-Off Time	t_f			0.1		s
Turn-On Time	t_{on}			0.1		s
Storage Time	t_{stg}			1.0		s

2SA1020

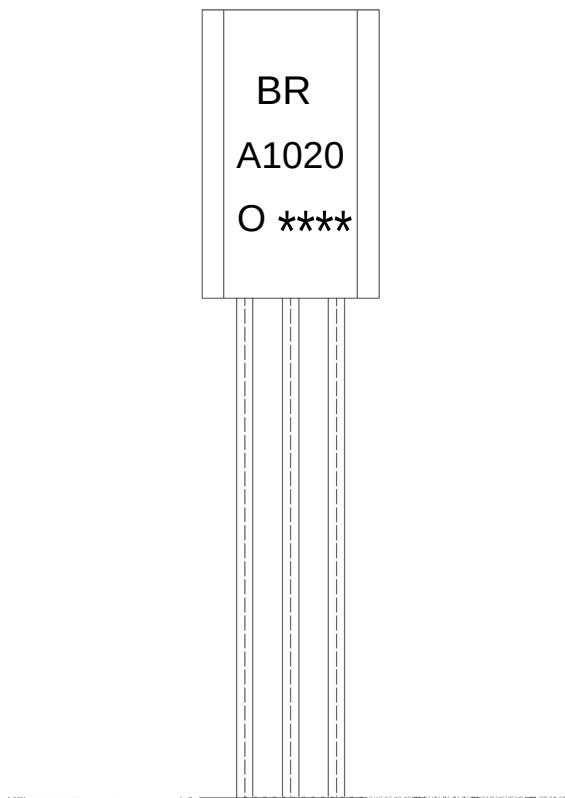
/ Package Dimensions

T0-92LM

Unit: mm



/ Marking Instructions



BR:

A1020

O: h_{FE}

Note:

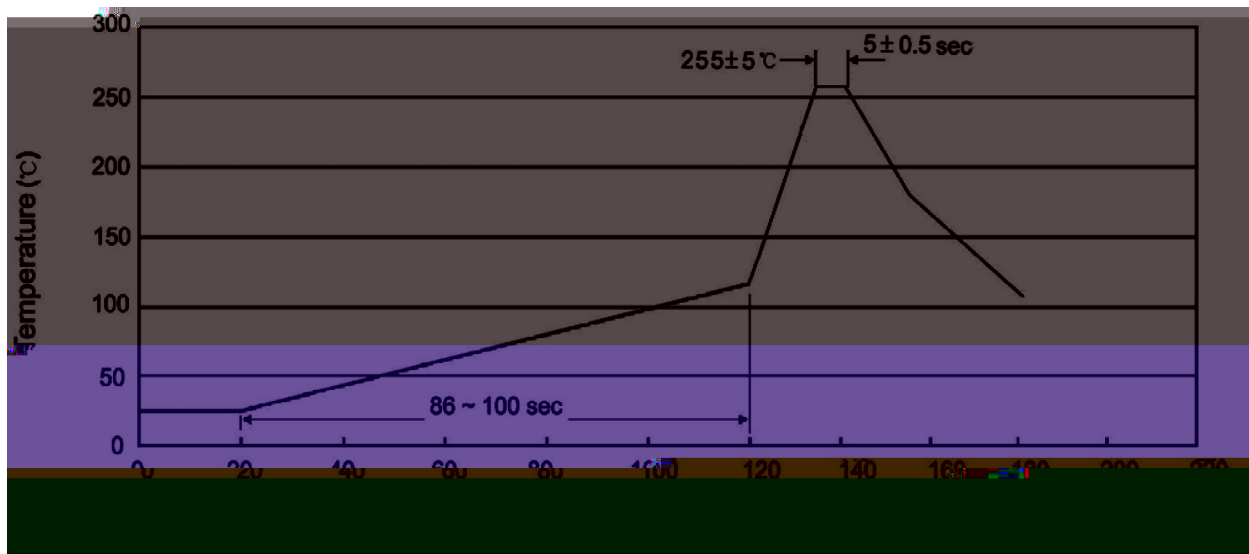
BR: Company Code.

A1020: Product Type.

O: h_{FE} Classifications Symbol

****: 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± | |

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