# 2SC2655

Rev.F Sep.-2017

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

## / Descriptions

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

## / Features

, , 2SA1020

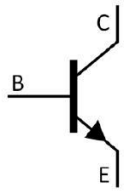
Low saturation voltage, high speed switching time, complementary to 2SA1020.

## / Applications

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Power amplifier and switching applications.

## / Equivalent Circuit




## / Pinning




PIN1 Base PIN 2 Collector PIN 3 Emitter

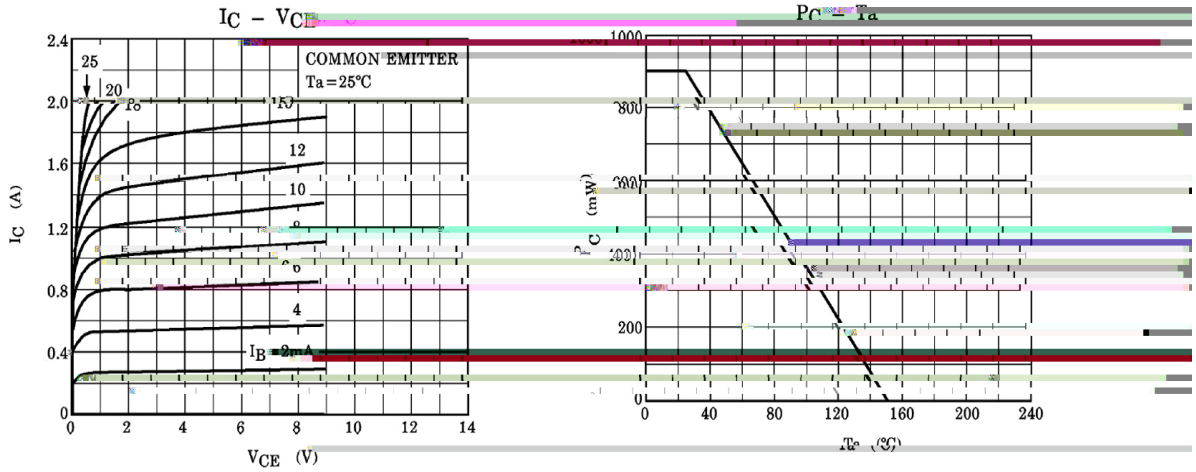
## / $h_{FE}$ Classifications & Marking

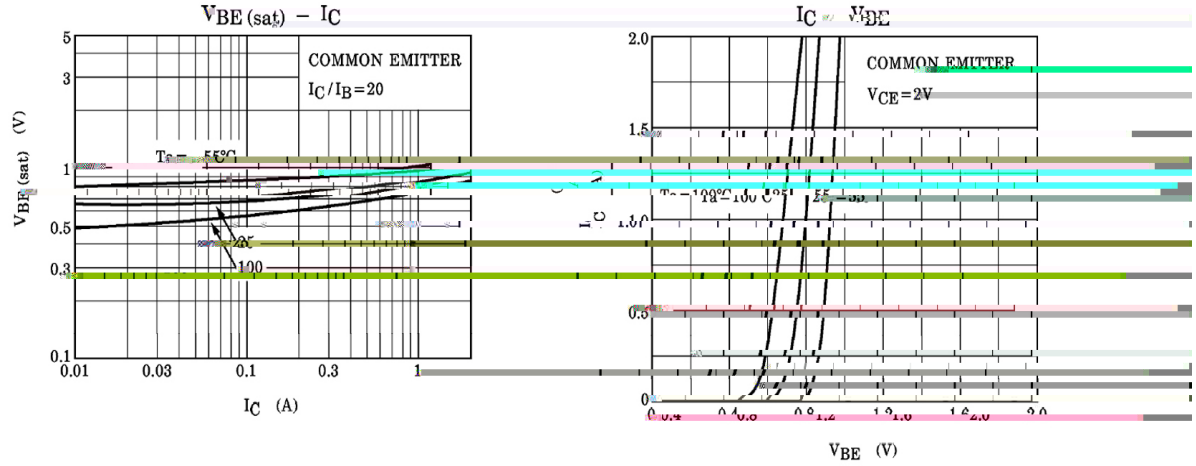
| $h_{FE}$ Classifications Symbol | O | Y | G |
|---|---|---|---|
| $h_{FE}$ Range | 70 140 | 120 240 | 200-400 |

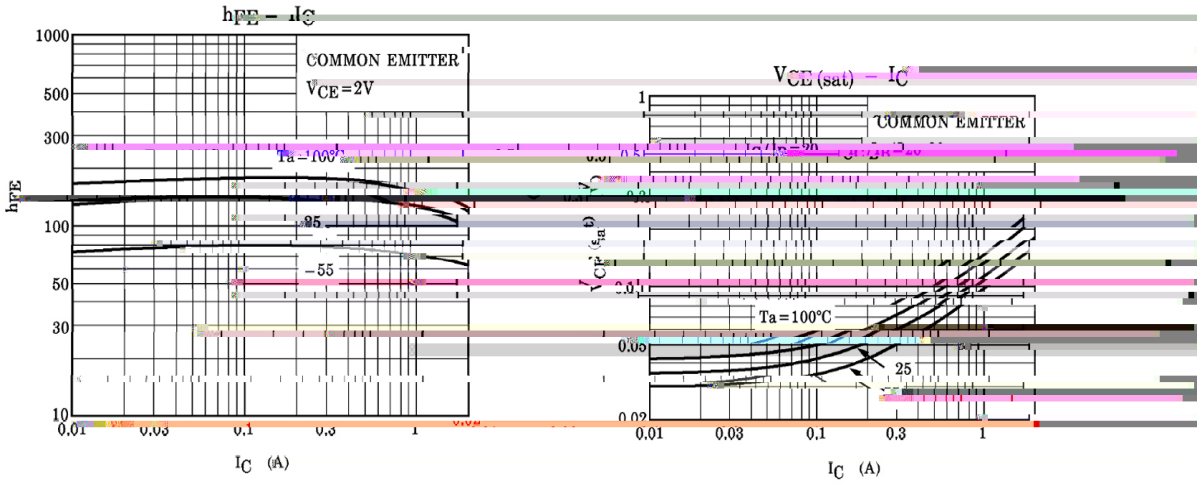
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 50 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 50 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |
| Collector Current (DC) | $I_C$ | 2.0 | A |
| Collector Power Dissipation | $P_C$ | 900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

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Collector to 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 | | 400 | |
| | $h_{FE(2)}$ | $V_{CE}$=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 |

## / Electrical Characteristic Curve

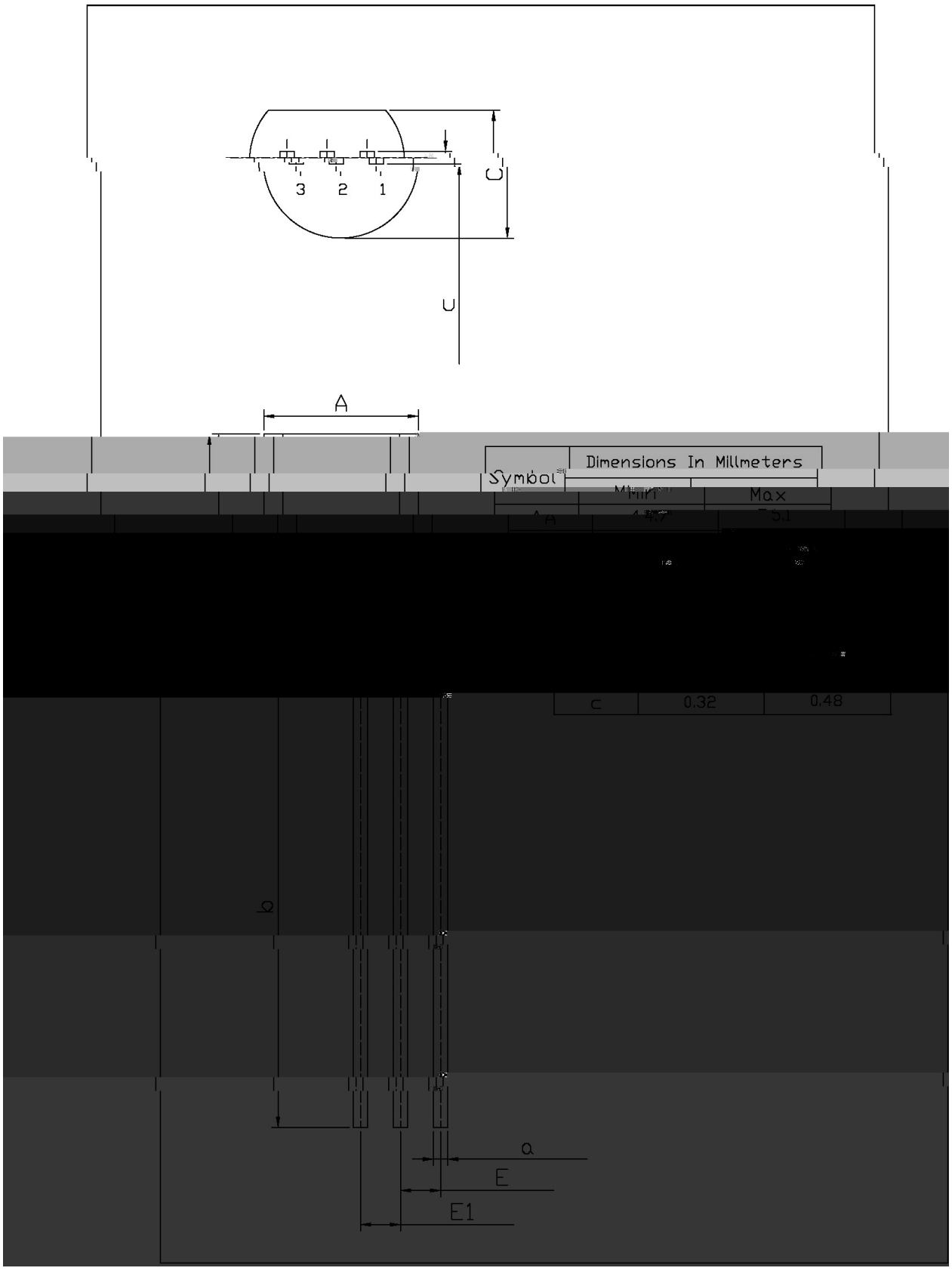


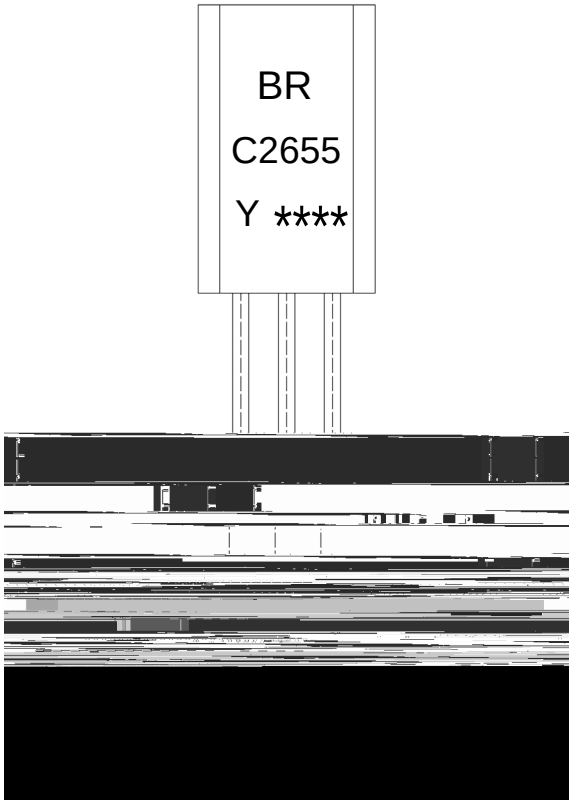



## / Package Dimensions

TO-92LM Unit: mm



## / Marking Instructions




BR:

C2655

Y: $h_{FE}$

****

Note:

| | |
|---|---|
| BR: | Company Code. |
| C2655: | Product Type. |
| Y: | $h_{FE}$ Classifications Symbol |
| ****: | Lot No. Code,code change with Lot No. |

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




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

## / Resistance to Soldering Heat Test Conditions

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

## / Packaging SPEC.

/ BULK

| Package Type | Units | Dimension | (unit mm3) |
|---|---|---|---|