

## / Descriptions

WR0<5 M M E QSQ æ M y s ll 1 Silicon NPN transistor in a TO-92 Plastic Package.

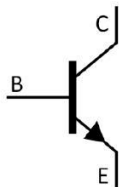
## / Features

Low Saturation Voltage.

## / Applications

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Voltage Regulator.

## / Equivalent Circuit



## / Pinning



PIN1  $\chi$  Collector      PIN 2  $\chi$  Base      PIN 3  $\chi$  Emitter

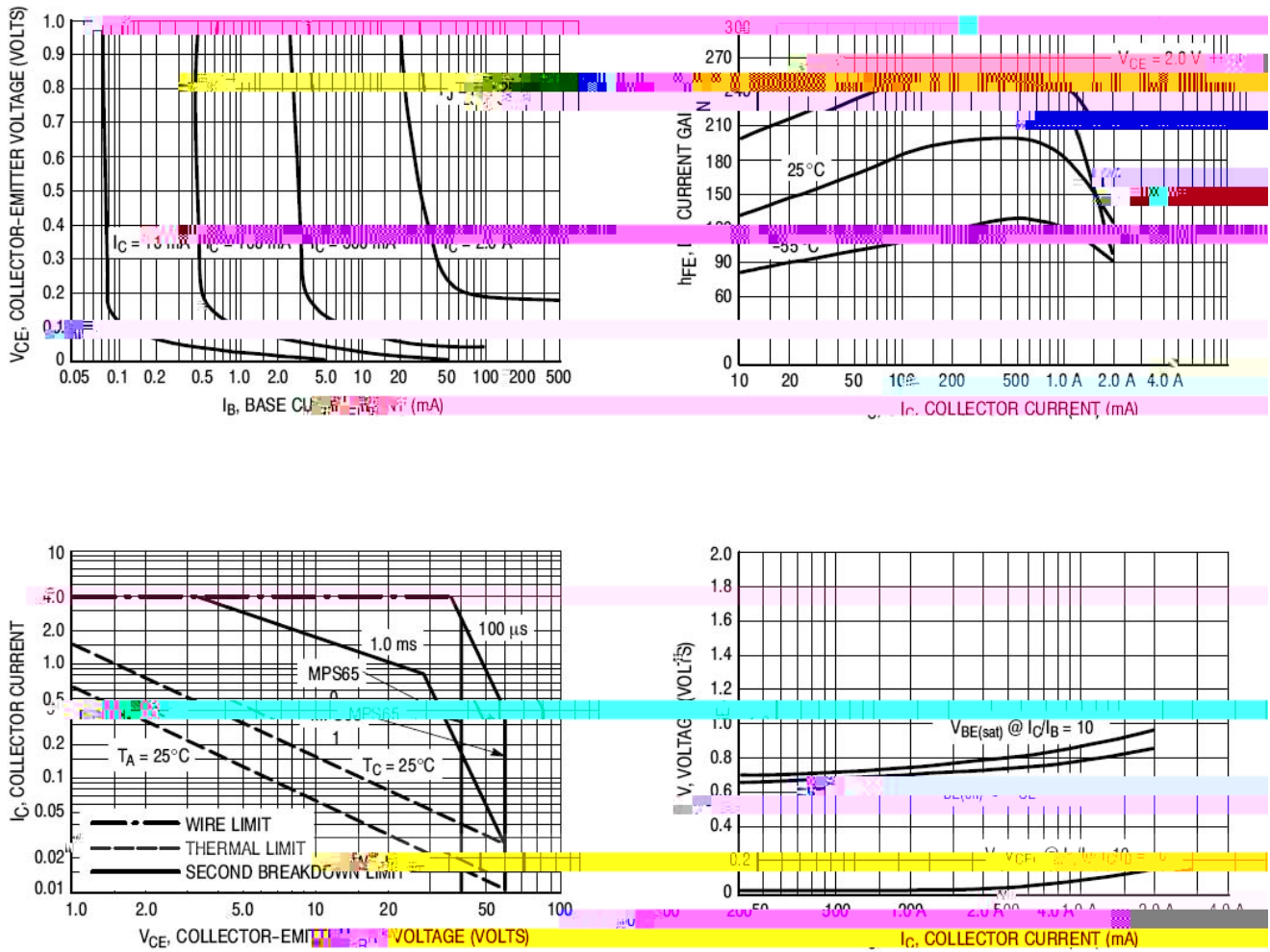
## / hFE Classifications & Marking

٥ م ٦ ب ” See Marking Instructions.

| Parameter                             | Symbol    | Rating  | Unit |
|---------------------------------------|-----------|---------|------|
| Collector to Base Voltage             | $V_{CBO}$ | 80      | V    |
| Collector to Emitter Voltage          | $V_{CEO}$ | 60      | V    |
| Emitter to Base Voltage               | $V_{EBO}$ | 5.0     | V    |
| Collector Current - Continuous        | $I_C$     | 1.0     | A    |
| Collector Current – Continuous(Pulse) | $I_{CP}$  | 2.0     | A    |
| Collector Power Dissipation           | $P_C$     | 625     | mW   |
| Junction Temperature                  | $T_j$     | 150     |      |
| Storage Temperature Range             | $T_{stg}$ | -55 150 |      |

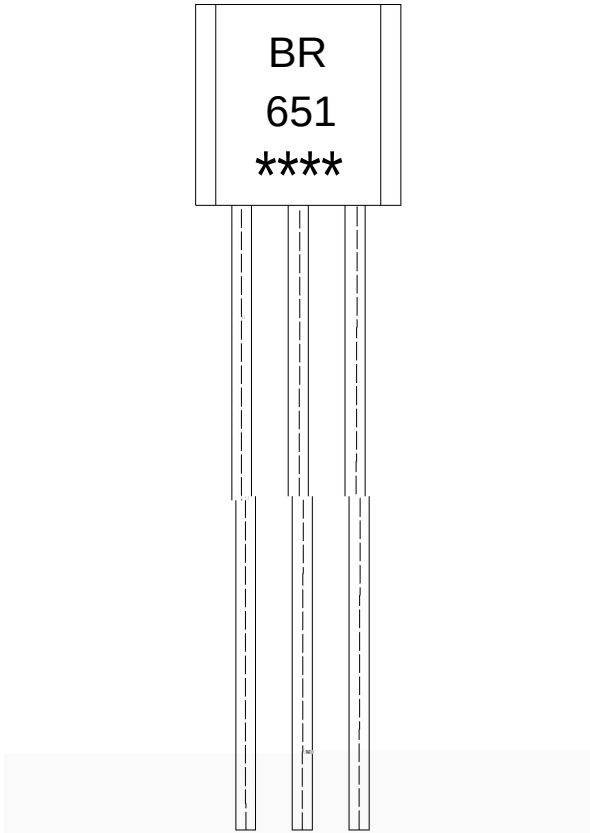
| Parameter                              | Symbol    | Test Conditions        | Min | Typ | Max | Unit |
|----------------------------------------|-----------|------------------------|-----|-----|-----|------|
| Collector to Base Breakdown Voltage    | $V_{CBO}$ | $I_C=100\mu A$ $I_E=0$ | 80  |     |     | V    |
| Collector to Emitter Breakdown Voltage | $V_{CEO}$ | $I_C=10mA$ $I_B=0$     | 60  |     |     | V    |
| Emitter to Base Breakdown Voltage      | $V_{EBO}$ | $I_E=10\mu A$ $I_C$    |     |     |     |      |

/ Electrical Characteristic Curve



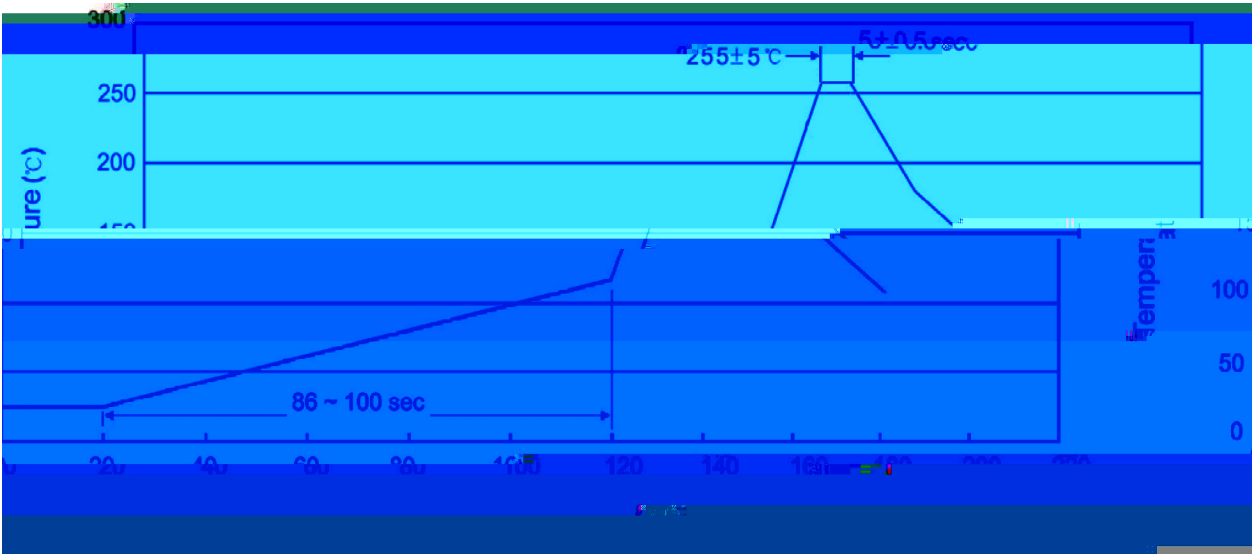


/ Marking Instructions



|      |                                       |
|------|---------------------------------------|
| BR   | Company Code.                         |
| 651  | Product Type.                         |
| **** | Lot No. Code,code change with Lot No. |

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



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Note: