# BD441

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

## / Descriptions

TO-126F NPN Silicon NPN transistor in a TO-126F Plastic Package.

## / Features

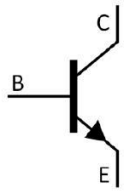
BD442

Complementary pair with BD442.

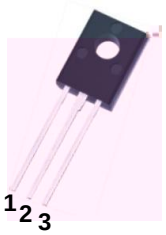
## / Applications

Medium power linear and switching applications.

## / Equivalent Circuit




## / Pinning



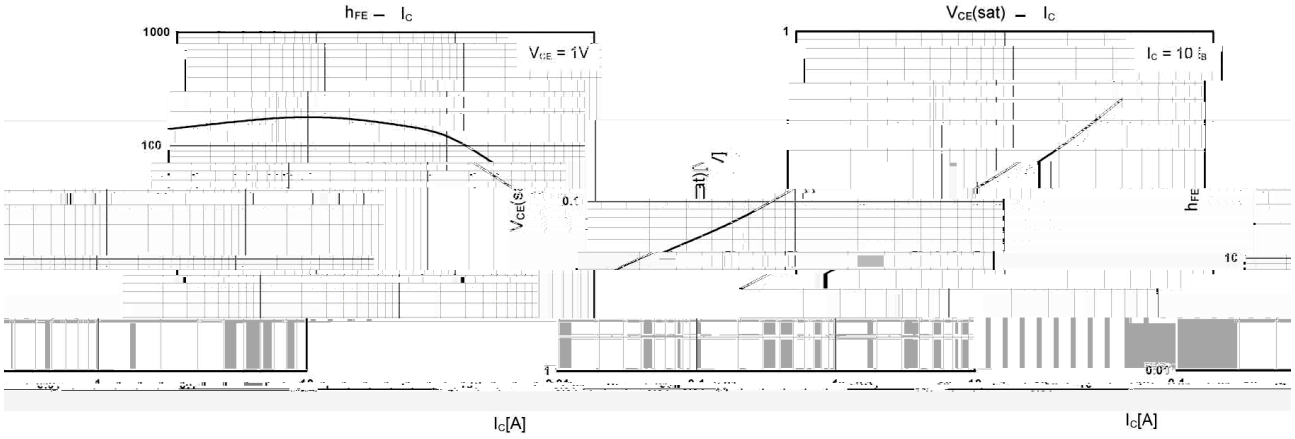

PIN1 Emitter PIN 2 Collector PIN 3 Base

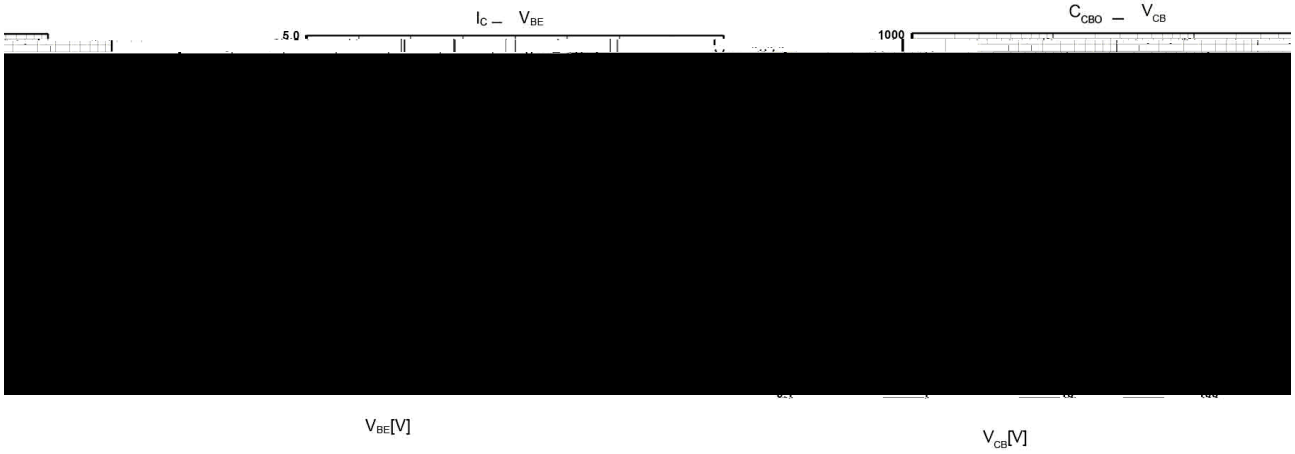
## / $h_{FE}$ Classifications & Marking

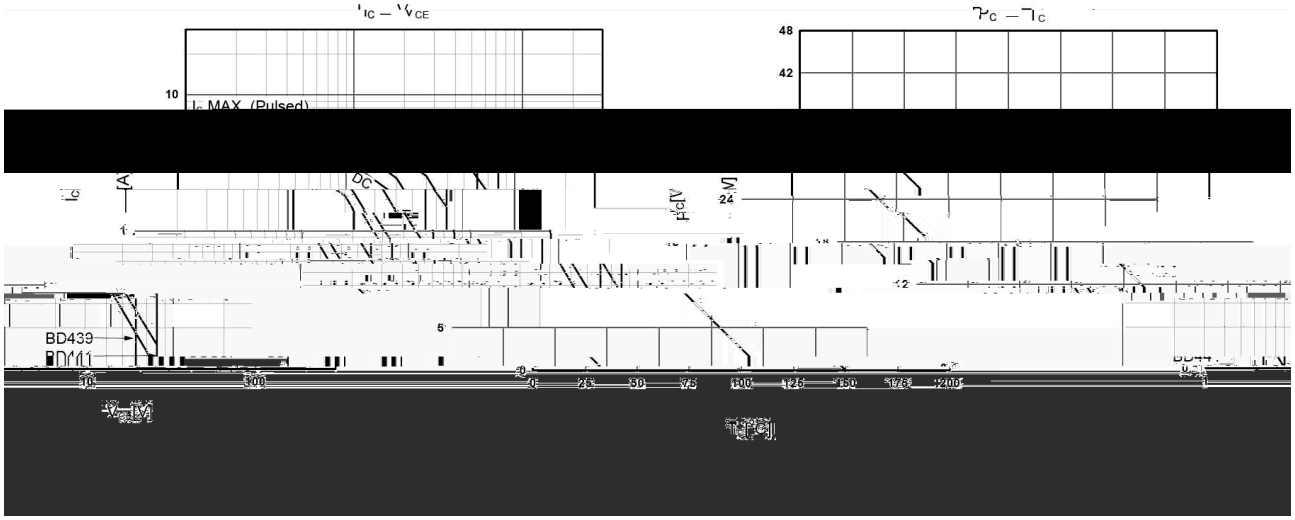
See Marking Instructions

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Collector to Base Voltage | $V_{CBO}$ | 80 | V |
| Collector to Emitter Voltage | $V_{CES}$ | 80 | V |
| Collector to Emitter Voltage | $V_{CEO}$ | 80 | V |
| Emitter to Base Voltage | $V_{EBO}$ | 5.0 | V |

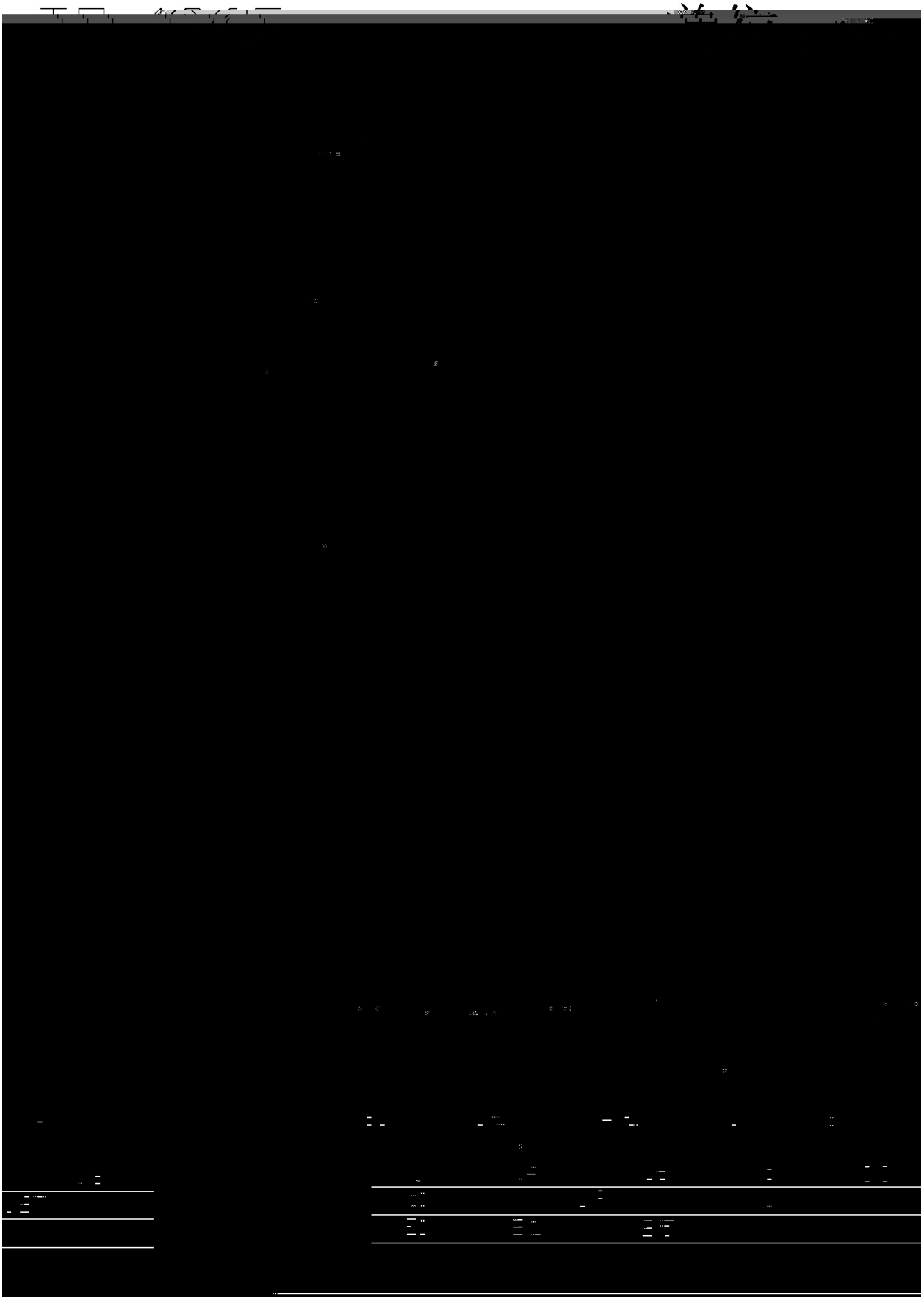
## / Electrical Characteristic Curve



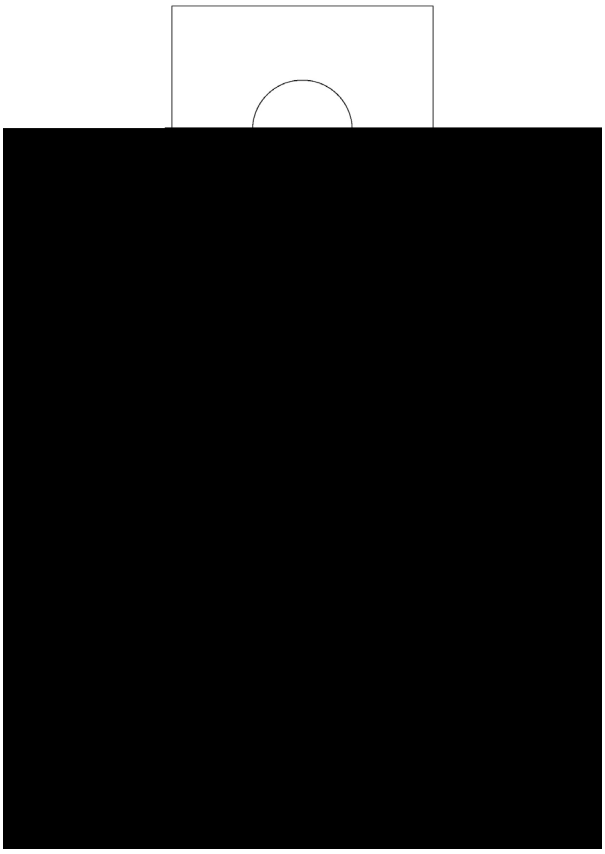



## / Package Dimensions



## / Marking Instructions



BR

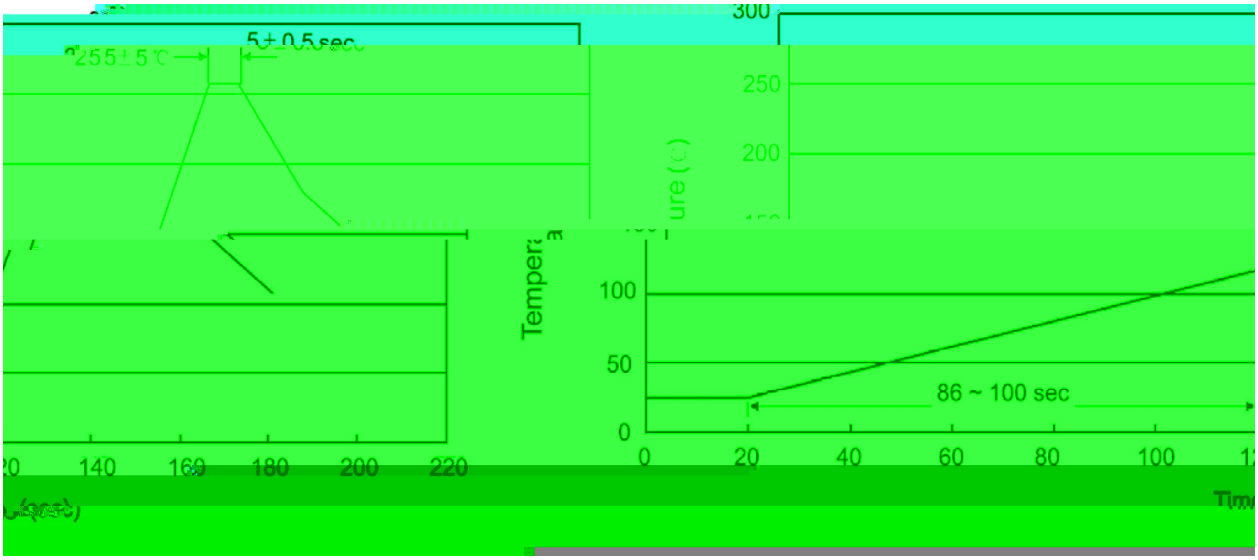
BD441

****

Note:

| | |
|---|---|
| BR: | Company Code |
| BD441: | Product Type. |
| ****: | 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) |
|---|---|---|---|---|---|---|---|---|
| | Units/Tube / | Tubes/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Tube | Inner Box | Outer Box |
| TO-126/F | 500 | 6 | 3,000 | 5 | 15,000 | 135×190 | 237×172×102 | 560×245×195 |

### / TUBE

| Package Type | Units | | | | | Dimension | | (unit mm³) |
|---|---|---|---|---|---|---|---|---|
| | Units/Tube / | Tubes/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Tube | Inner Box | Outer Box |
| TO-126/F | 65 | 26 | 1,690 | 5 | 8,450 | 532×31×5.6 | 555×164×50 | 575×290×180 |

## / Notices