

# BD441

Rev.E Mar.-2016

## / Descriptions

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

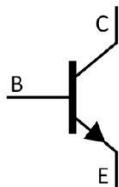
## / Features

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

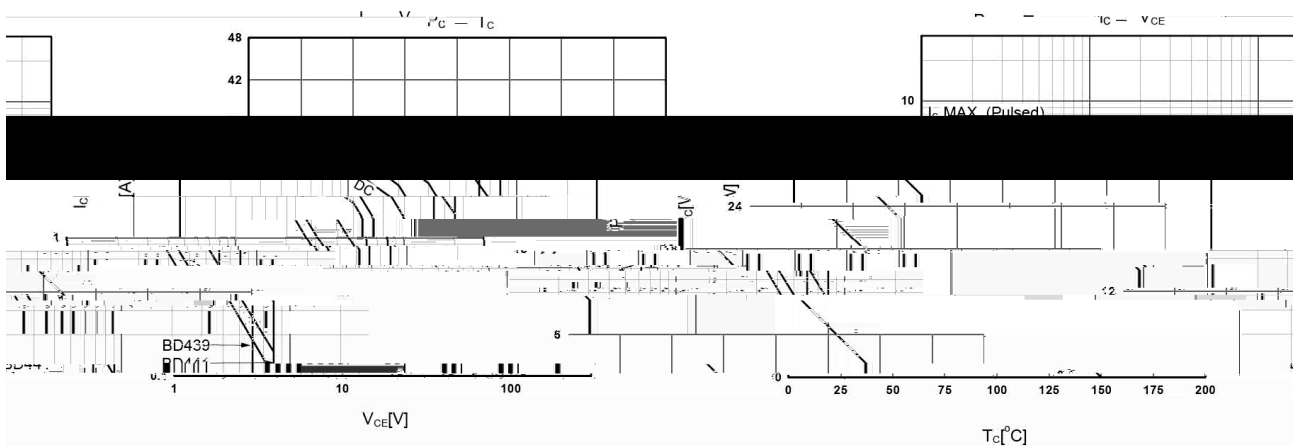
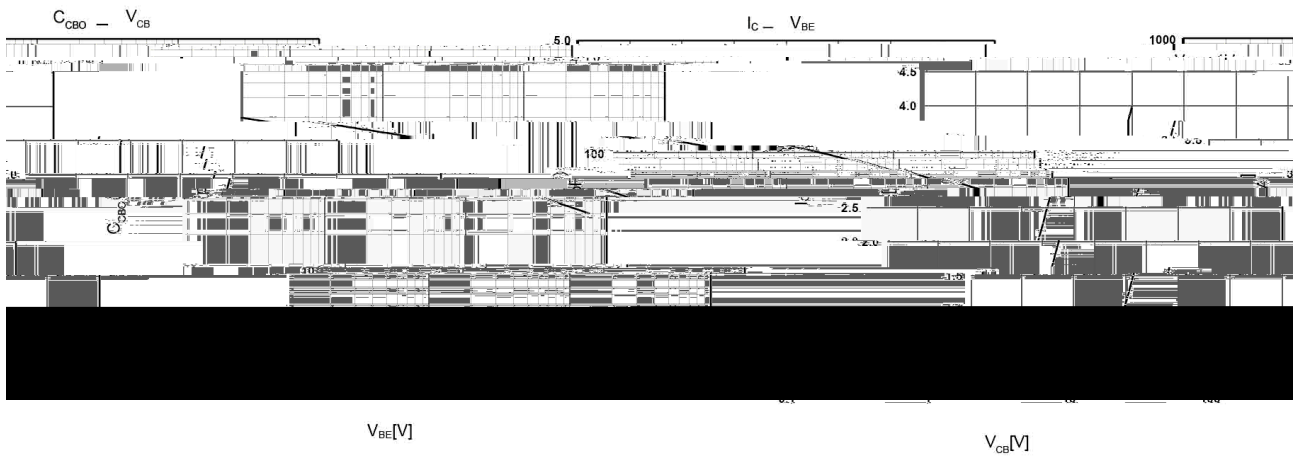
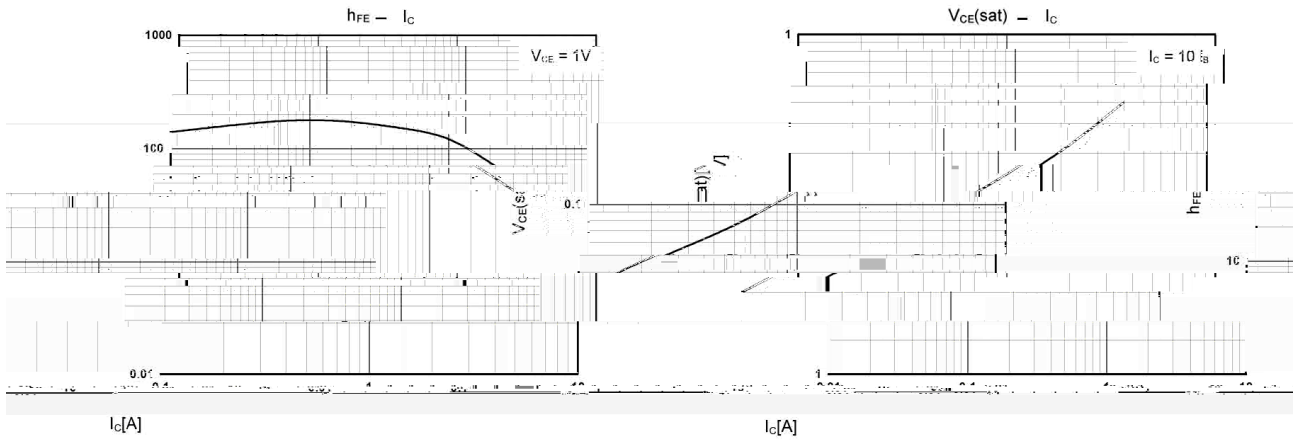
See Marking Instructions

# BD441

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| 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

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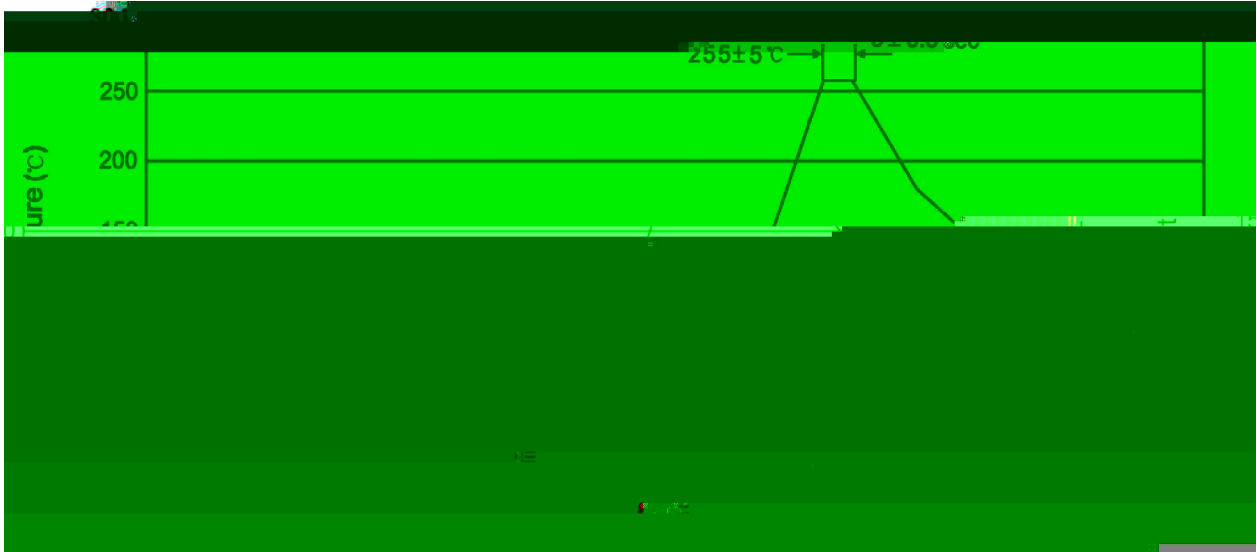
Note:

BR: Company Code

BD441: Product Type.

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

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



- |   |       |     |       |        |       |   |
|---|-------|-----|-------|--------|-------|---|
| 1 | 25    | 150 | 60    | 90sec; | Note: | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 255±5 |     | 5±0.5 | sec;   |       | 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 mm <sup>3</sup> ) |  |  |
|--------------|-------|--|--|--|-----------------------------------|--|--|
|              |       |  |  |  |                                   |  |  |
|              |       |  |  |  |                                   |  |  |

/ TUBE

| Package Type | Units |  |  |  | Dimension (unit mm <sup>3</sup> ) |  |  |
|--------------|-------|--|--|--|-----------------------------------|--|--|
|              |       |  |  |  |                                   |  |  |
|              |       |  |  |  |                                   |  |  |

**/ Notices**