

**/ Descriptions**

TO-126F

NPN

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

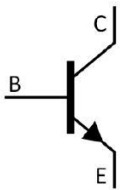
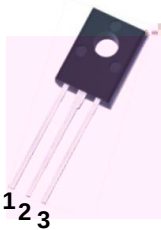
**/ Features**

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**

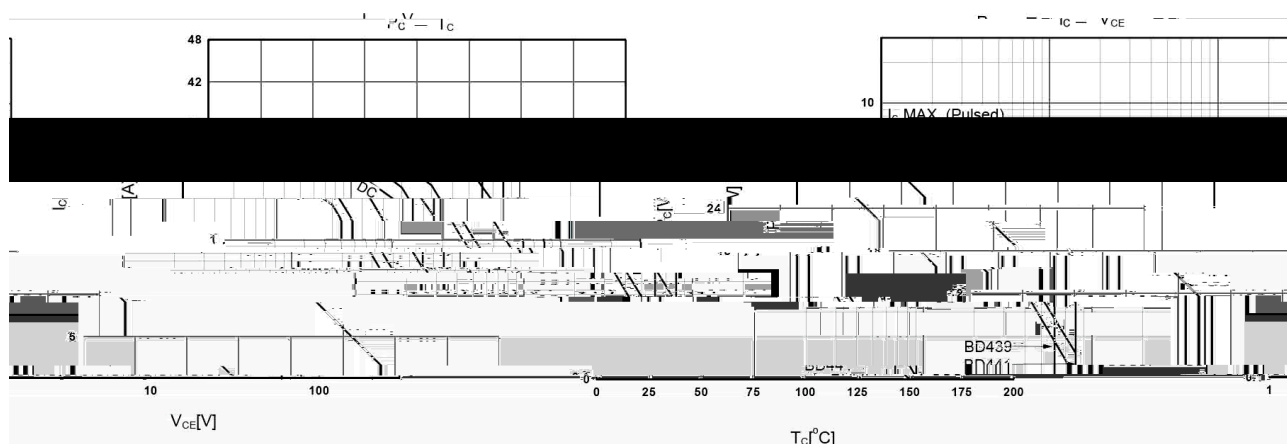
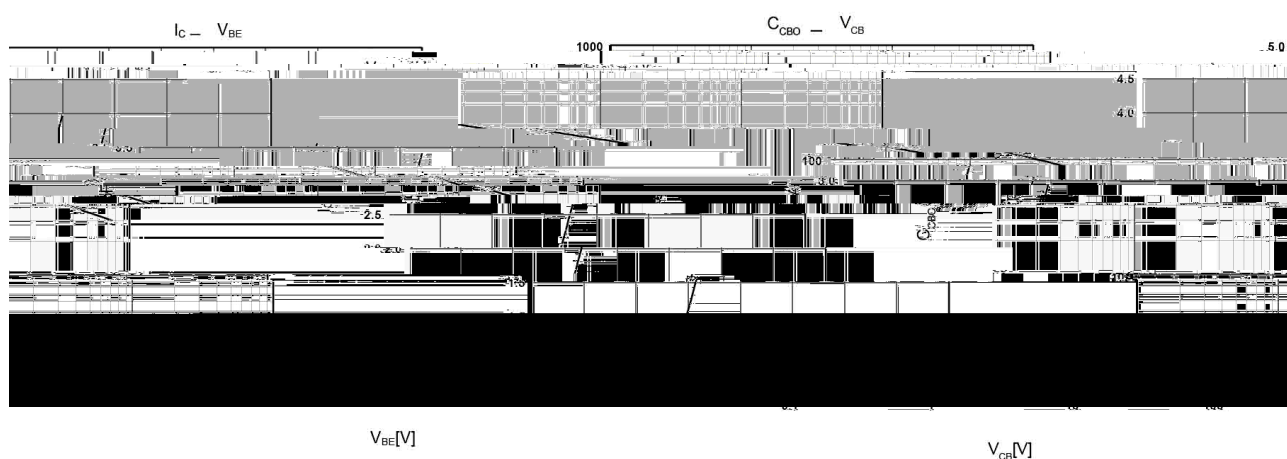
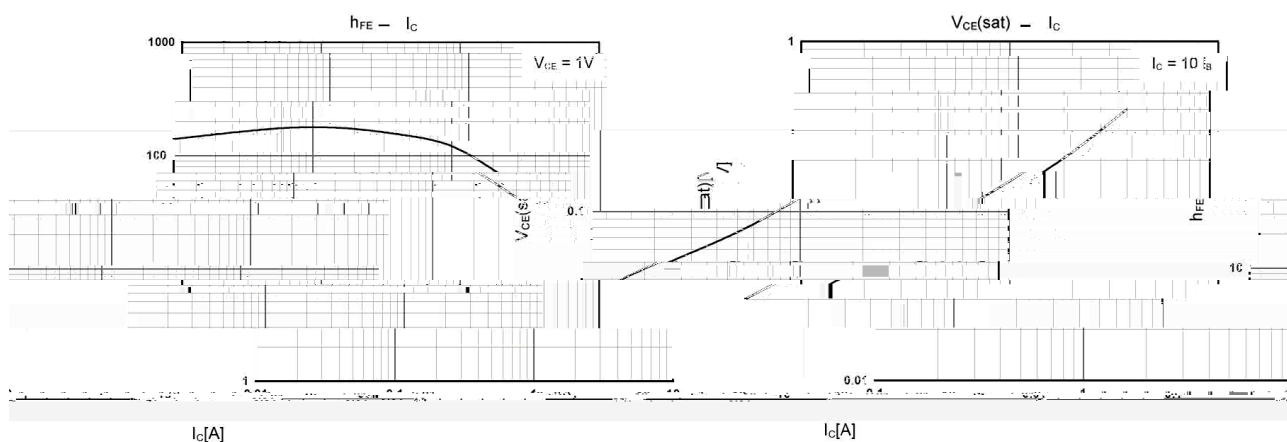
See Marking Instructions

# BD441

Rev.E Mar.-2016

| 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    |

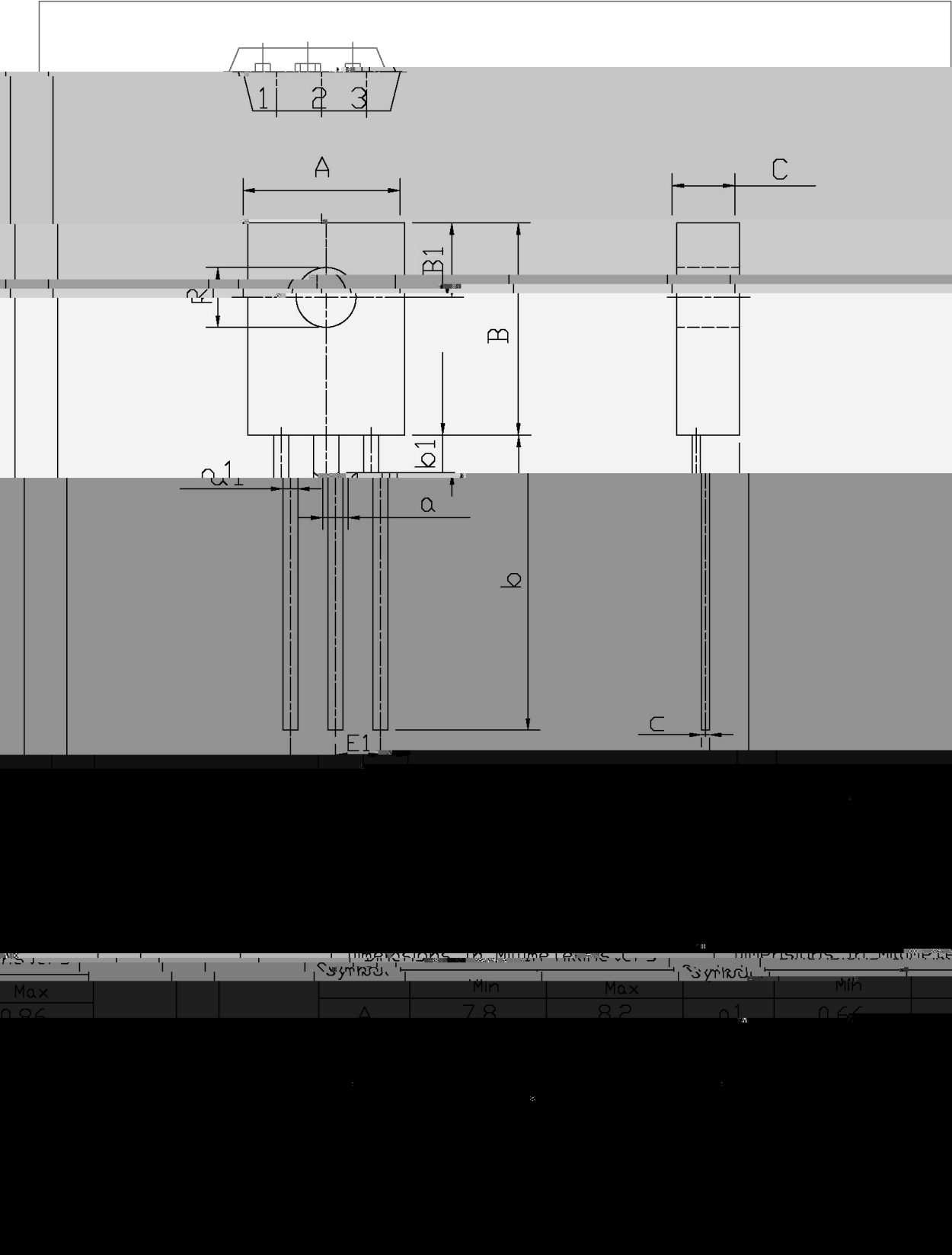
**/ Electrical Characteristic Curve**



/ Package Dimensions

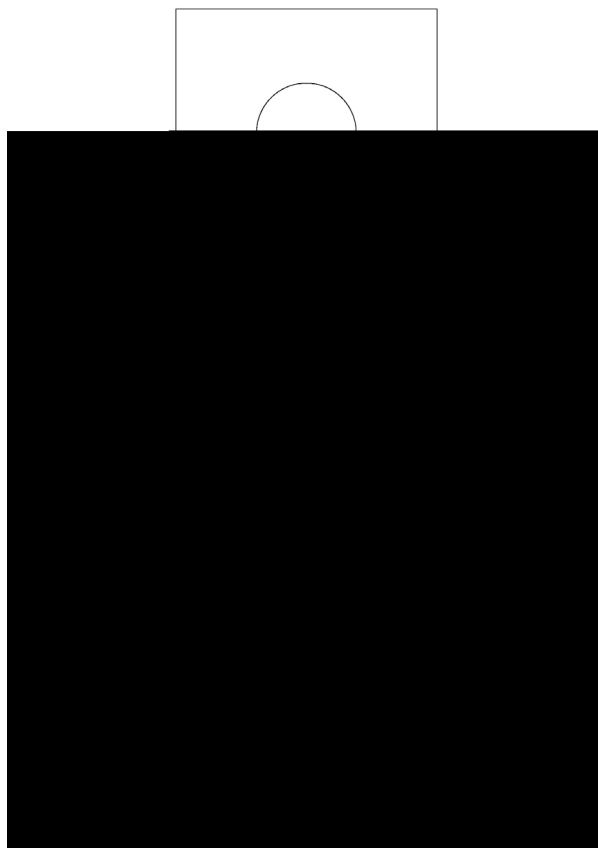
TU-126F

单位: mm



| Max  | Min | Max | Min  |
|------|-----|-----|------|
| 0.86 | 7.8 | 8.2 | 0.66 |

**/ Marking Instructions**



BR

BD441

\*\*\*\*

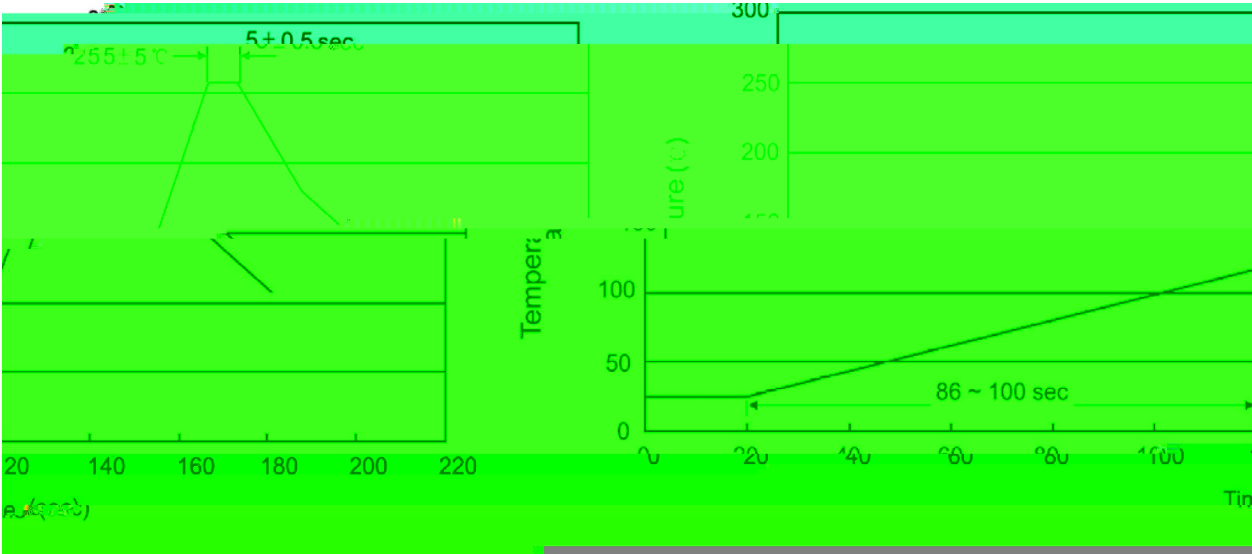
Note:

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;
- 2

255±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150 , Time:60~90sec.
- 2.Peak Temp.:255±5 , Duration:5±0.5sec.
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