

### / Descriptions

TO-251          N          MOS          N-CHANNEL MOSFET in a TO-251 Plastic Package.

### / Features

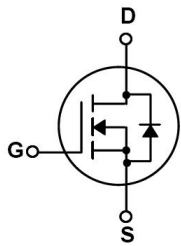
Low gate charge, low crss, fast switching.

### / Applications

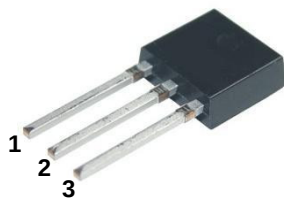
DC/DC

These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

### / Equivalent Circuit



### / Pinning



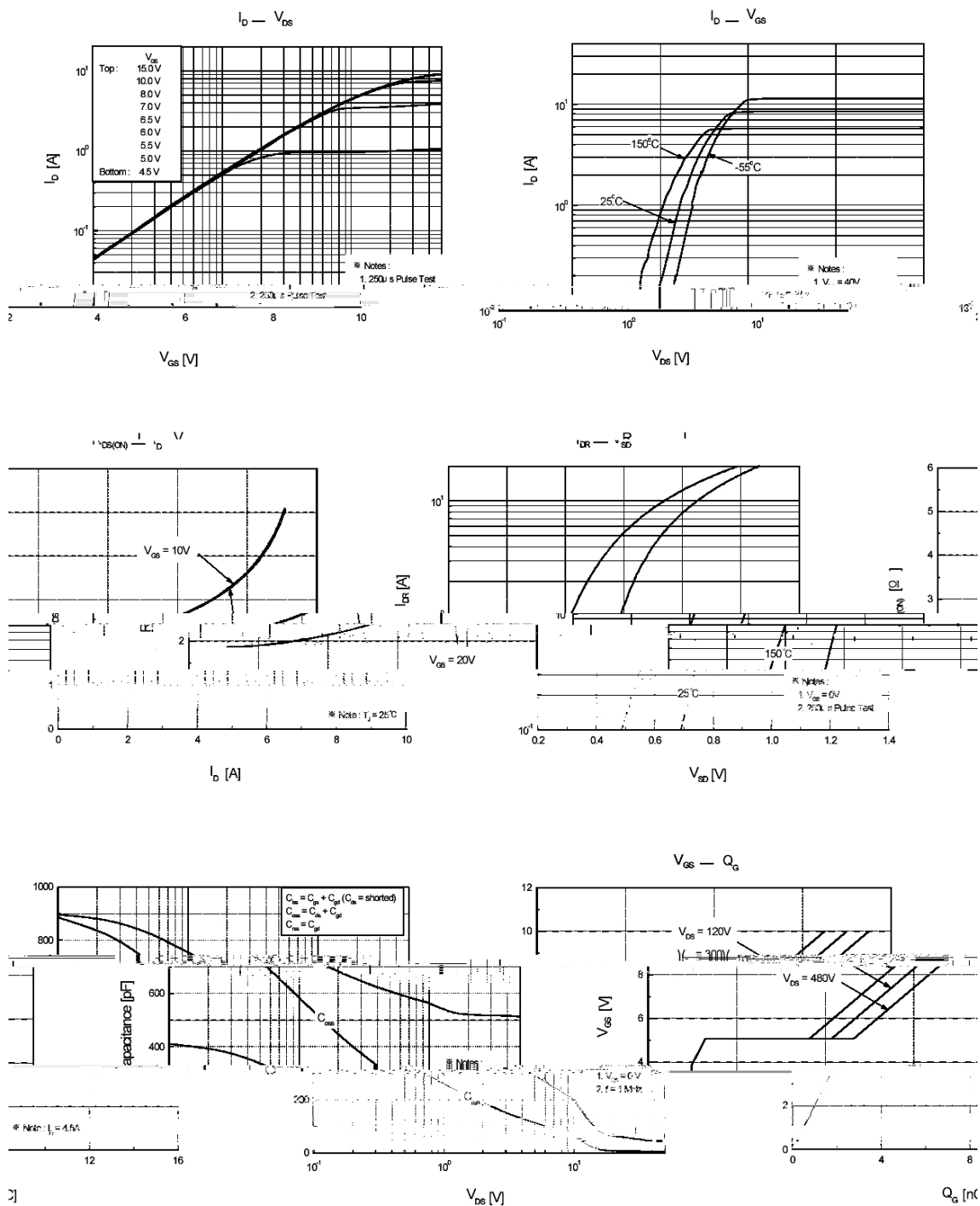
PIN1   G          PIN 2   D          PIN 3   S

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

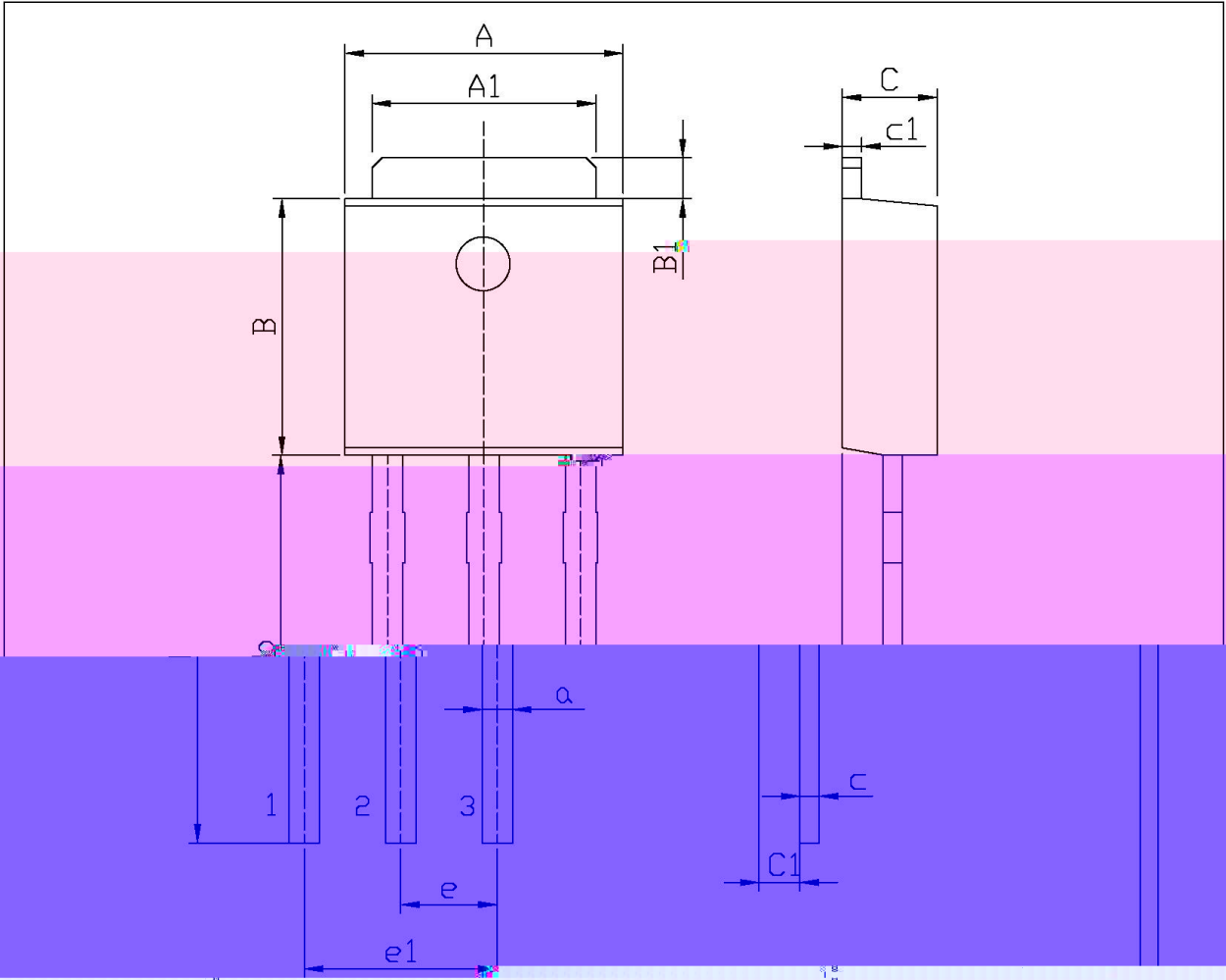
See Marking Instructions.



**/ Electrical Characteristic Curve**



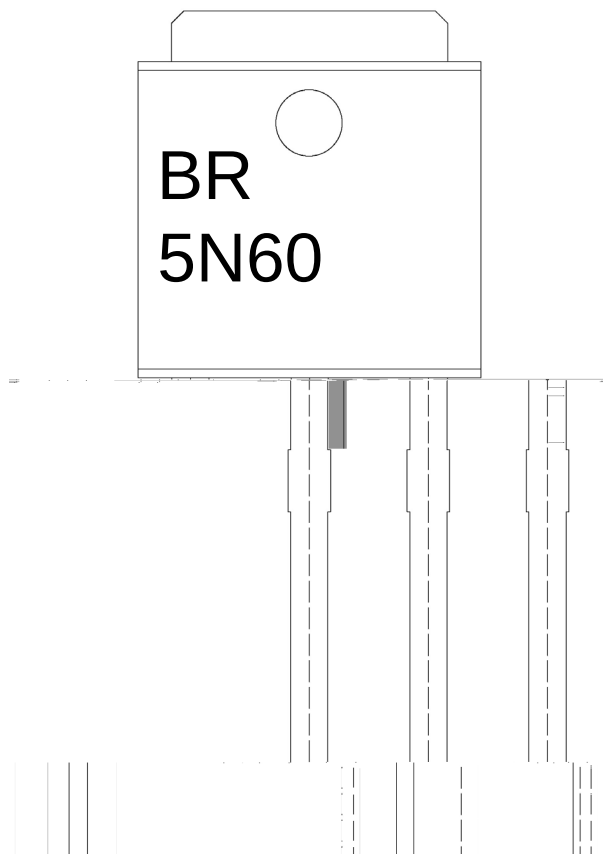
I Package Dimensions



单位: mm

| Dimensions In Millimeters |      | Symbol | Dimensions In Millimeters |      | Symbol |
|---------------------------|------|--------|---------------------------|------|--------|
| Min                       | Max  |        | Min                       | Max  |        |
| 6.45                      | 6.75 | a      | 0.50                      | 0.55 | A      |
| 5.10                      | 5.50 | b      | 9.00                      | 9.40 | A1     |
| 5.95                      | 6.35 | c      | 0.45                      | 0.55 | B      |
| 0.95                      | 1.25 | c1     | 0.45                      | 0.55 | B1     |

**/ Marking Instructions**



BR

5N60

\*\*\*\*

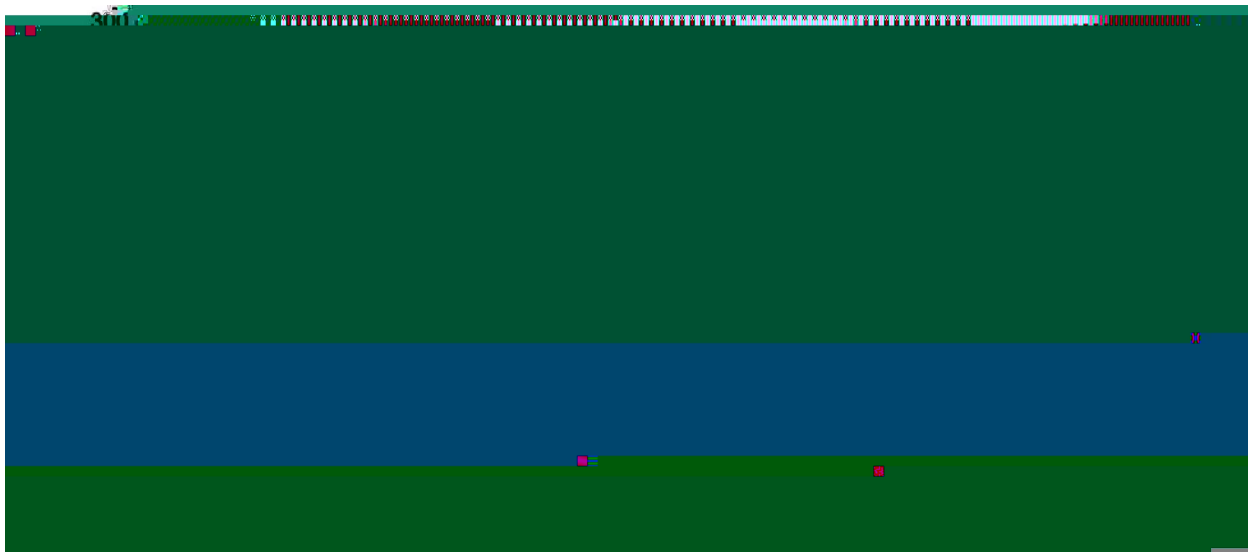
Note:

BR: Company Code

5N60: 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 mm <sup>3</sup> ) |
|--------------|-------|--|--|--|--|-----------|--|-------------------------|
|              |       |  |  |  |  |           |  |                         |
|              |       |  |  |  |  |           |  |                         |

/ TUBE

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

/ Notices