

**/ Descriptions**

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

**/ Features**

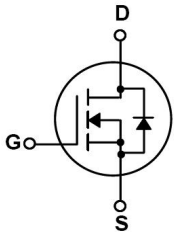
Low gate charge, low crss, fast switching.

**/ Applications**

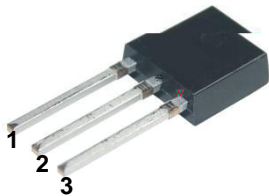
DC/DC

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<sub>FE</sub> Classifications & Marking**

See Marking Instructions.

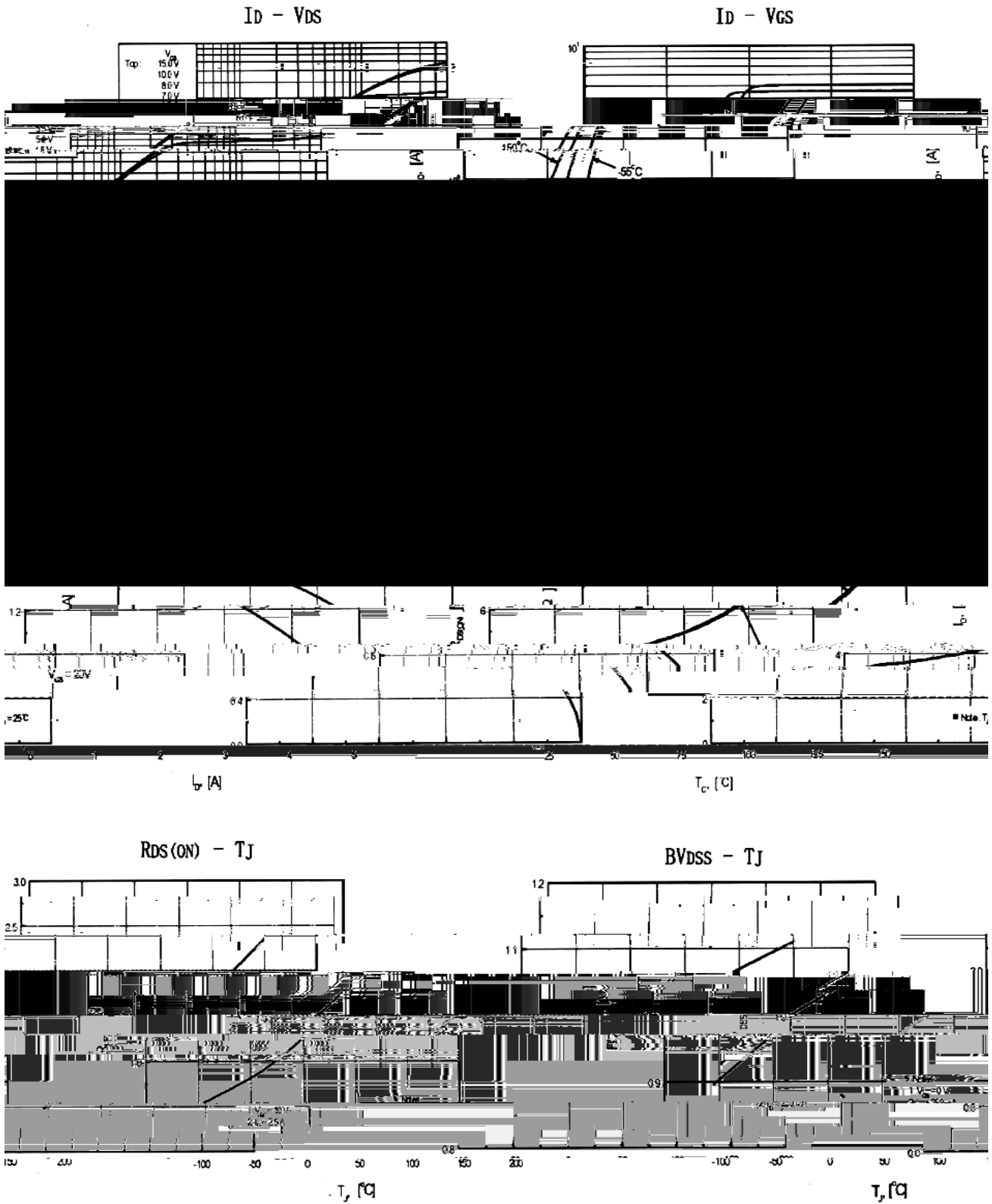
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DSS}$	600	V
Drain Current	$I_D(T_C=25^\circ C)$	2.0	A
Drain Current	$I_D(T_C=100^\circ C)$	1.3	A
Drain Current - Pulsed	$I_{DM}$	6.0	A
Gate-Source Voltage	$V_{GSS}$	$\pm 30$	V
Single Pulsed Avalanche Energy	$E_{AS}$	120	mJ
Repetitive Avalanche Energy	$E_{AR}$	5.4	mJ
Avalanche Current	$I_{AR}$	2.0	A
Power Dissipation	$P_D(T_C=25^\circ C)$	45	W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	

Parameter

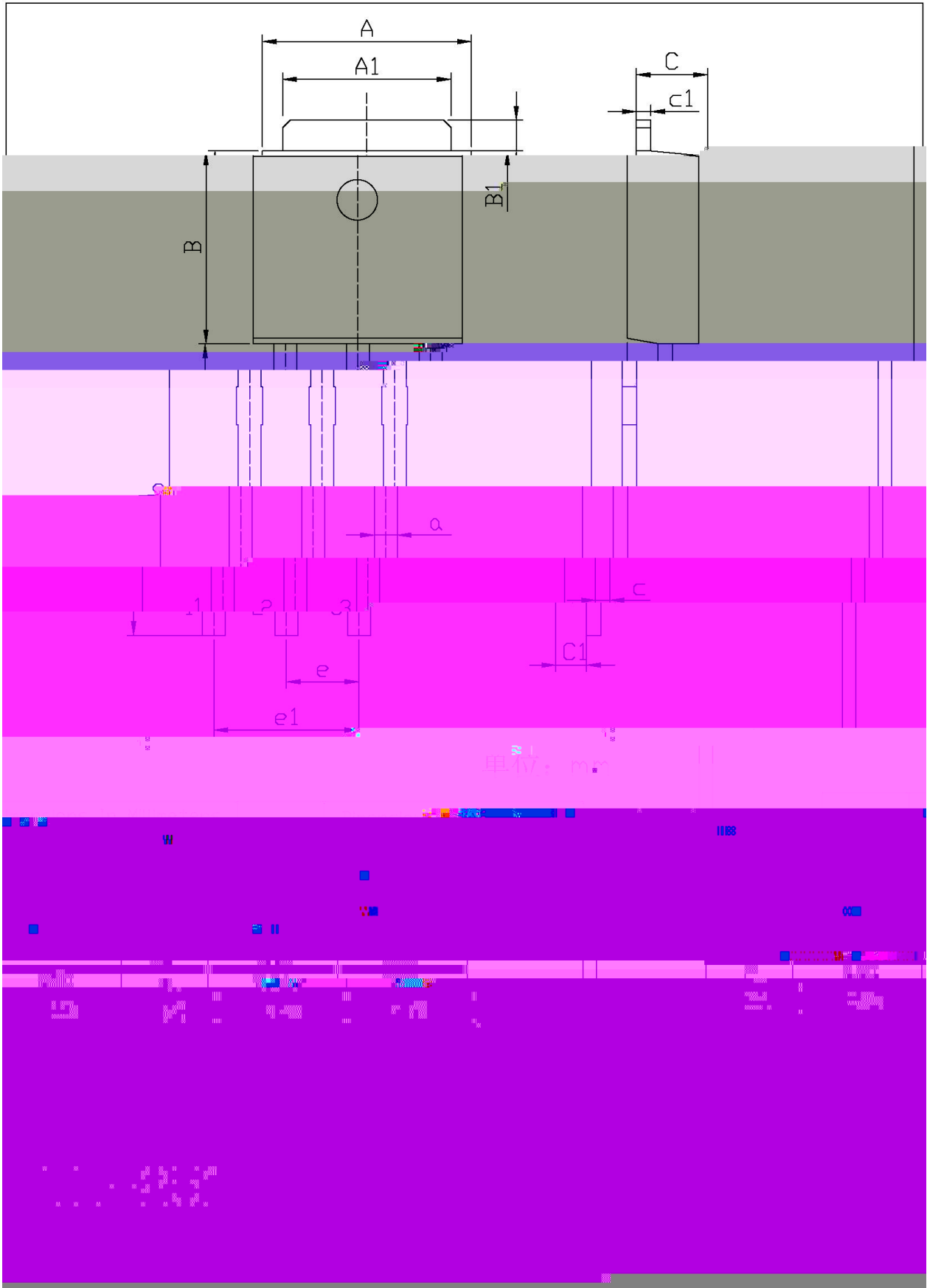
Symbol

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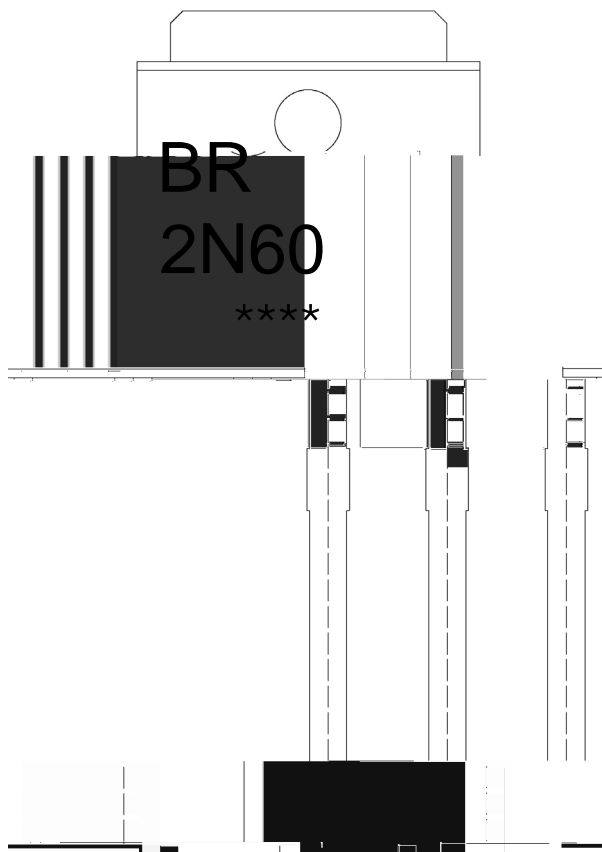
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

2N60

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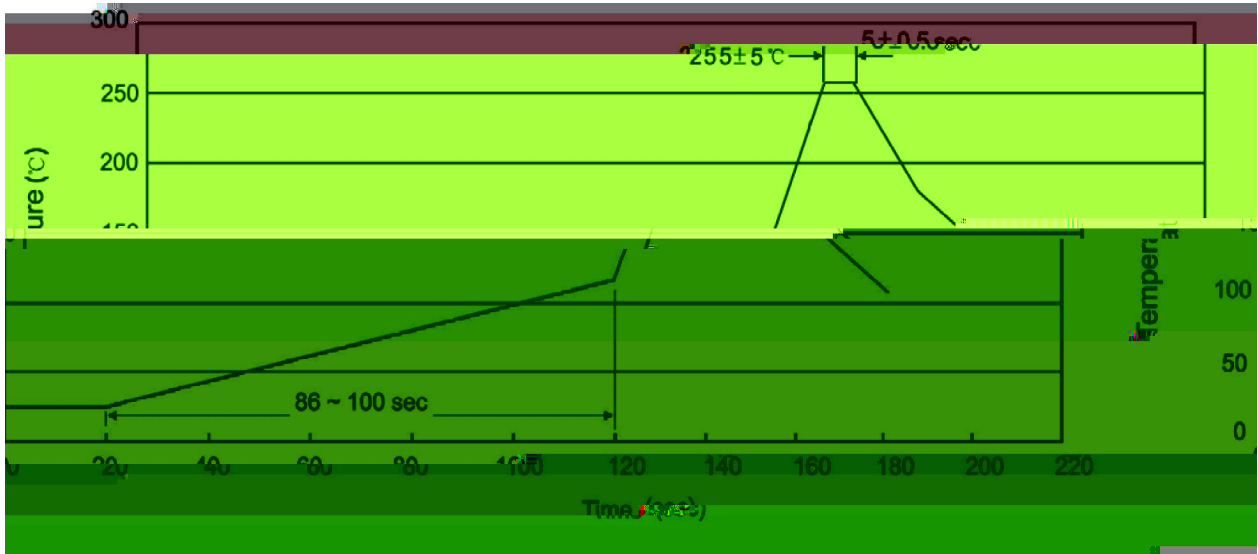
Note:

BR: Company Code

2N60: 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
T0-251	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units/Tube 只/套管	Units 包装数量	Dimension 包装尺寸 (unit: mm <sup>3</sup> )