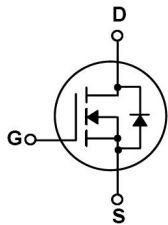
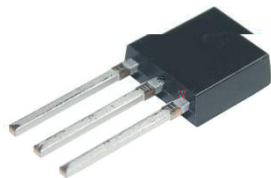


TO-251          N          MOS          N-CHANNEL MOSFET in a TO-251 Plastic Package.

Low  $R_{DS(on)}$ , low gate charge, low  $C_{rss}$ , fast speed switching.

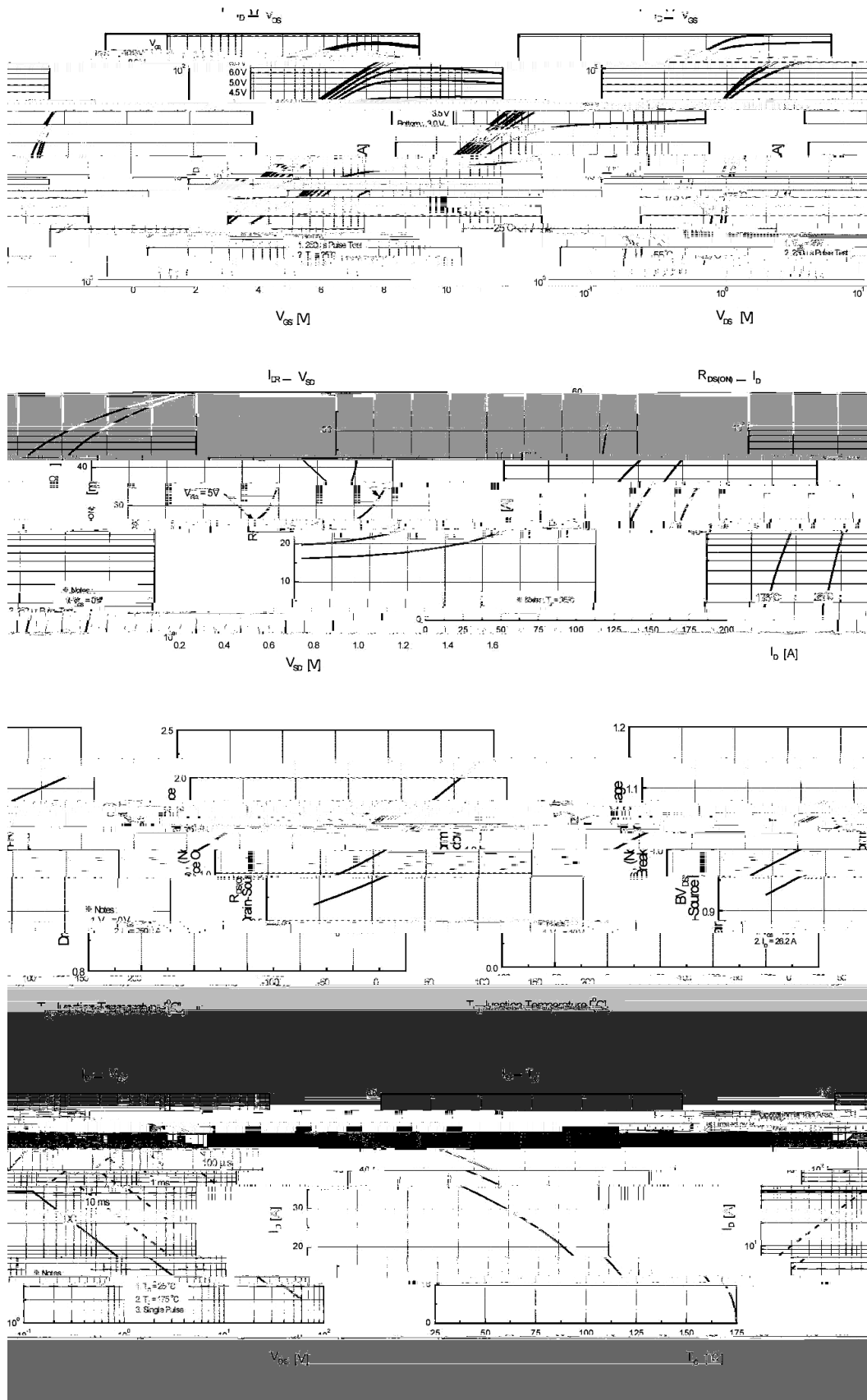
Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.



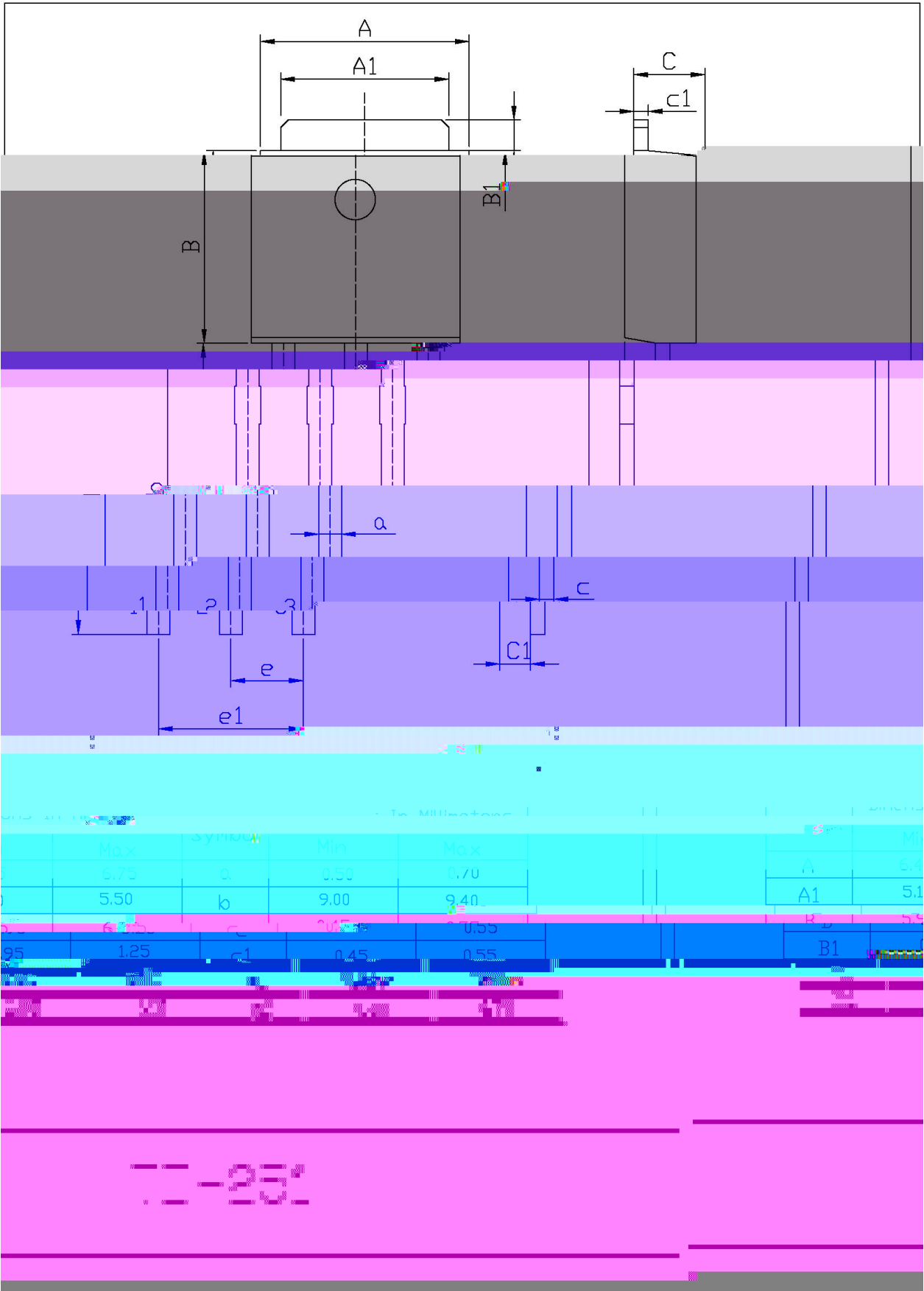
PIN1 G      PIN 2 D      PIN 3 S

| Parameter                      | Symbol                       | Rating   | Unit |
|--------------------------------|------------------------------|----------|------|
| Drain-Source Voltage           | $V_{DSS}$                    | 60       | V    |
| Drain Current                  | $I_D(T_c=25^\circ\text{C})$  | 50       | A    |
| Drain Current                  | $I_D(T_c=100^\circ\text{C})$ | 35.4     | A    |
| Drain Current Pulsed           | $I_{DM}$                     | 200      | A    |
| Gate-Source Voltage            | $V_{GS}$                     | $\pm 20$ | V    |
| Single Pulsed Avalanche Energy | $E_{AS}$                     | 490      | mJ   |
| Repetitive Avalanche Energy    | $E_{AR}$                     | 12       | mJ   |
| Power Dissipation              | $P_D(T_c=25^\circ\text{C})$  | 85       | W    |
| Junction Temperature Range     | $T_j$                        | 150      |      |
| Storage Temperature Range      | T                            |          |      |

**/ Electrical Characteristic Curve**

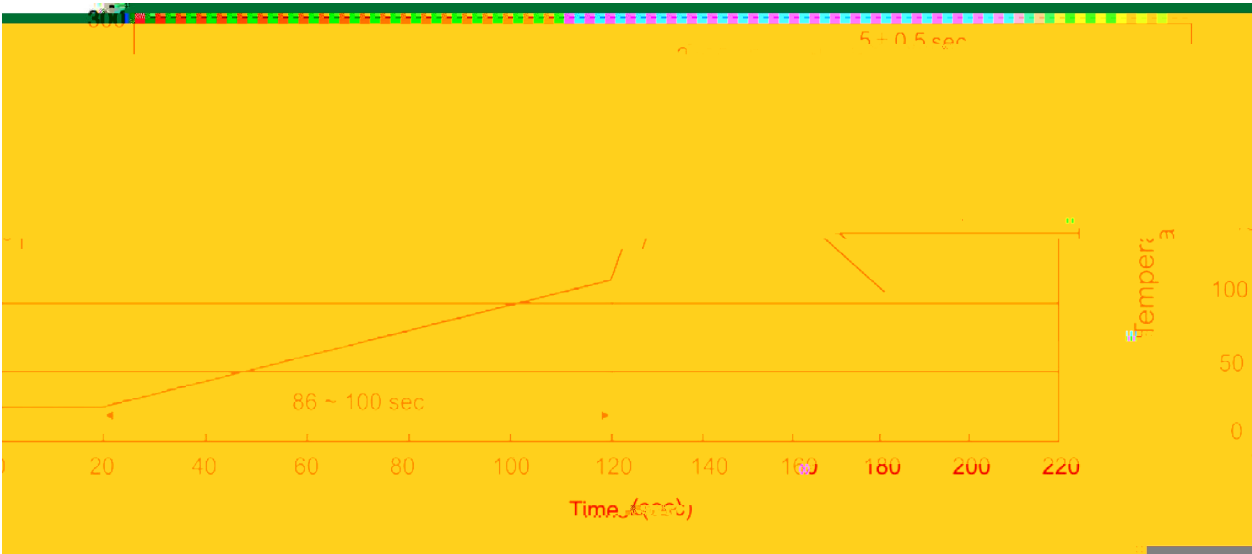


I Package Dimensions



**BRI50N06**

( ) / 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<br>封装形式 | Units 包装数量       |                       |                        |                              |                        | Dimension 包装尺寸 (unit: mm <sup>3</sup> ) |             |             |
|----------------------|------------------|-----------------------|------------------------|------------------------------|------------------------|-----------------------------------------|-------------|-------------|
|                      | Units/Bag<br>只/袋 | Bags/Inner Box<br>袋/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>只/箱 | Bag 袋                                   | Inner Box 盒 | Outer Box 箱 |