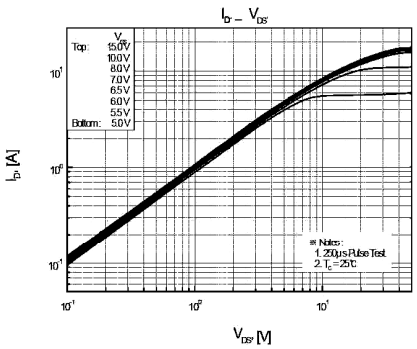
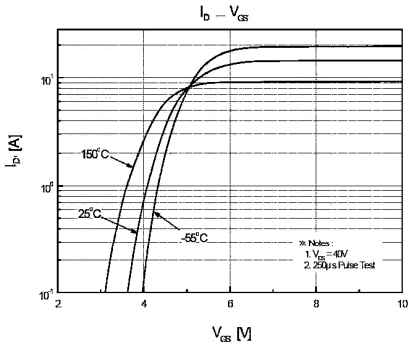
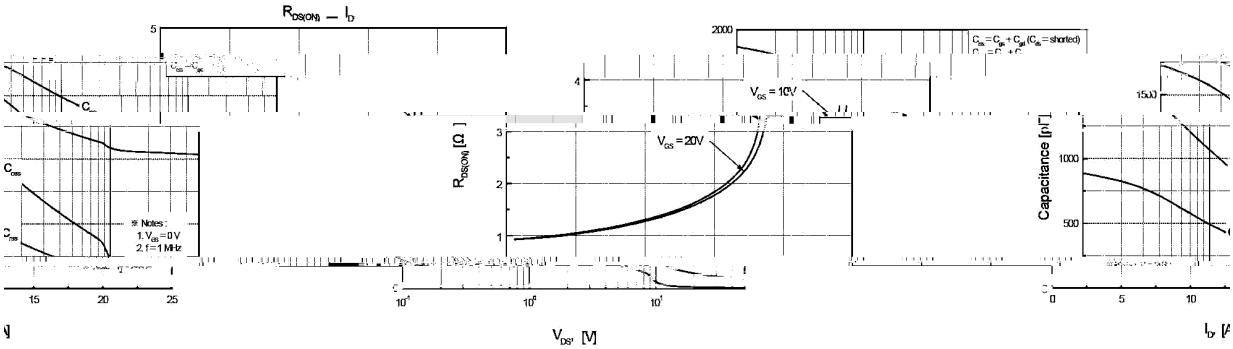
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Drain-Source Voltage | $V_{DSS}$ | 600 | V |
| Drain Current | $I_D$(Tc=25 ) | 7.0 | A |
| Drain Current | $I_D$(Tc=100 ) | 4.4 | A |
| Drain Current - Pulsed | $I_{DM}$ | 28 | A |
| Gate-Source Voltage | $V_{GS}$ | ±30 | V |
| Single Pulsed Avalanche Energy | $E_{AS}$ | 420 | mJ |
| Repetitive Avalanche Energy | $E_{AR}$ | 14.7 | mJ |
| Avalanche Current | $I_{AR}$ | 7.0 | A |
| Power Dissipation | $P_D$(Tc=25 ) | 147 | W |
| Operating and Storage Temperature Range | $T_J$,$T_{STG}$ | -55 to 150 | |

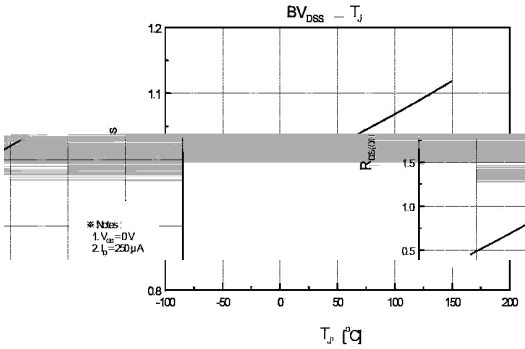
| Parameter | Symbol | Test Conditions | | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|---|
| Drain-Source Breakdown Voltage | $BV_{DSS}$ | $V_{GS}$=0V | $I_D$=250μA | 600 | | | V |
| Zero Gate Voltage Drain Current | $I_{DSS}$ | $V_{DS}$=600V | $V_{GS}$=0V | | | 10 | |

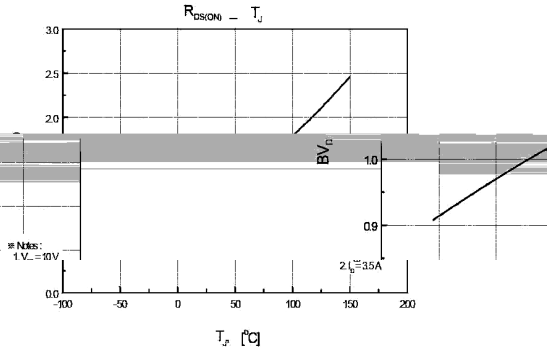
## / Electrical Characteristic Curve

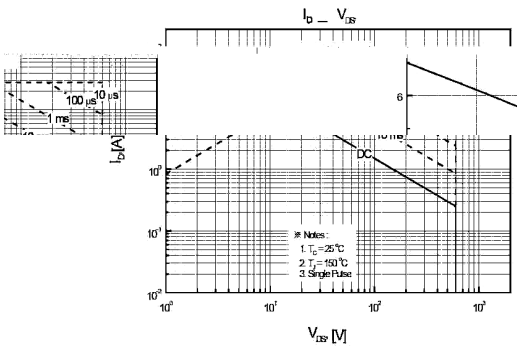


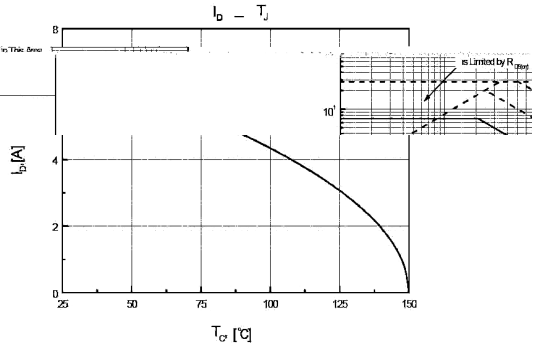



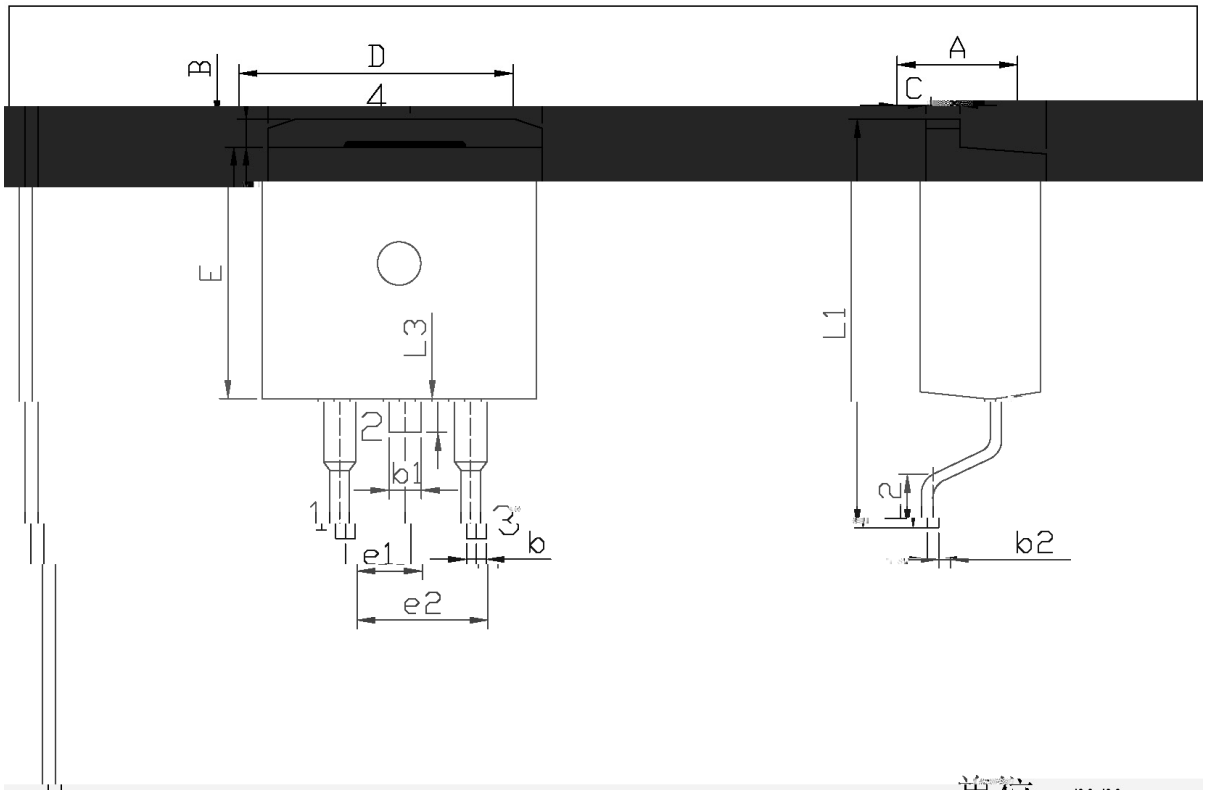



## / Package Dimensions

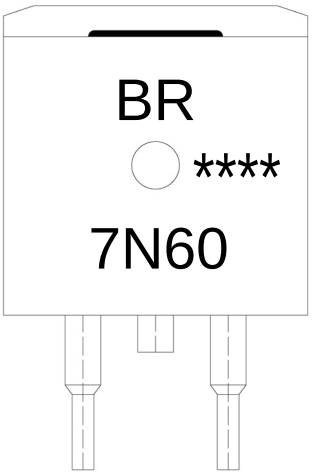



单位：mm

| Symbol | Dimensions In Millimeters | | Symbol | Dimensions In Millimeters | |
|---|---|---|---|---|---|
| | Min | Max | | Min | Max |
| A | 4.30 | 4.70 | E | 9.00 | 9.40 |
| B | 1.00 | 1.40 | [illegible] | [illegible] | [illegible] |

TO-263

## / Marking Instructions




BR

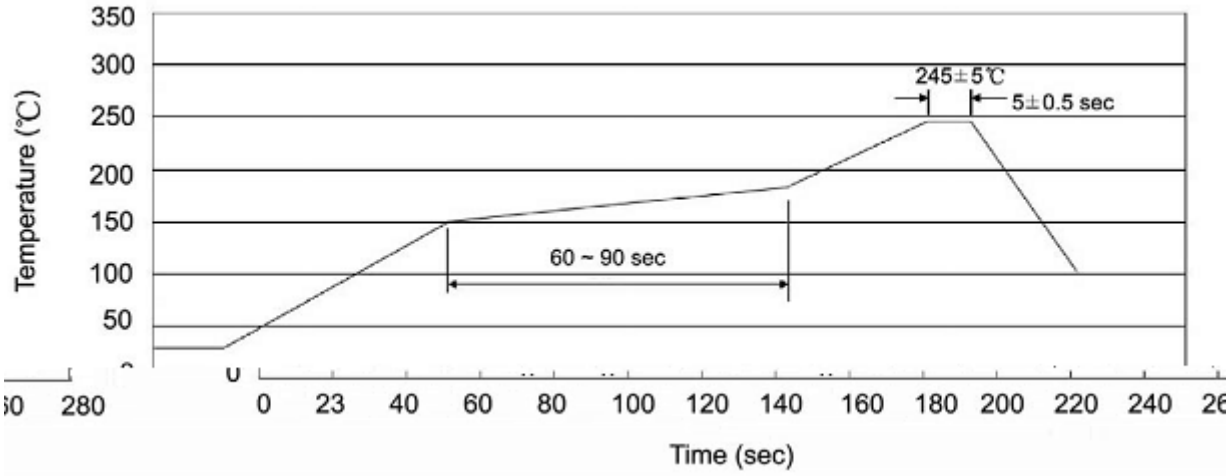
7N60

****

Note:

| | |
|---|---|
| BR: | Company Code |
| 7N60: | Product Type. |
| ****: | Lot No. Code, code change with Lot No. |

## ( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)




| | | | |
|---|---|---|---|
| 1 | 25 150 60 90sec; | | Note: |
| 2 | 245±5 5±0.5sec; | | 1.Preheating:25~150 , Time:60~90sec. |
| 3 | 2 10 /sec. | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| | | | 3. Cooling Speed: 2~10 /sec. |

## / Resistance to Soldering Heat Test Conditions

| | | | |
|---|---|---|---|
| 260±5 | 10±1 sec. | Temp.:260±5 | Time:10±1 sec |

## / Packaging SPEC.

### / REEL

| Package Type | Units | | | | | Dimension (unit mm$^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel / | Reels/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Reel | Inner Box | Outer Box |
| TO-263 | 800 | 1 | 800 | 5 | 4,000 | 13 ×24 | 360×360×50 | 385×257×392 |

### / TUBE

| Package Type | Units | | | | | Dimension (unit mm$^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Tube / | Tubes/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Tube | Inner Box | Outer Box |
| TO-263 | 50 | 20 | 1,000 | 5 | 5,000 | 532×33×7.0 | 555×164×50 | 575×290×180 |

## / Notices