

**/ Descriptions**

TO-262          N      MOS          N-CHANNEL MOSFET in a TO-262 Plastic Package..

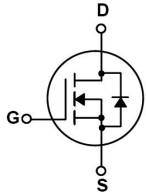
**/ Features**

Low gate charge, low crss, fast switching.

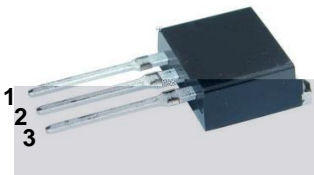
**/ Applications**

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

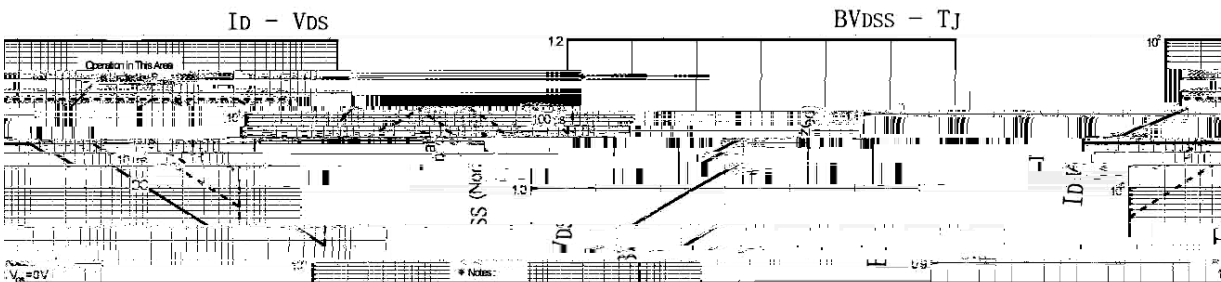
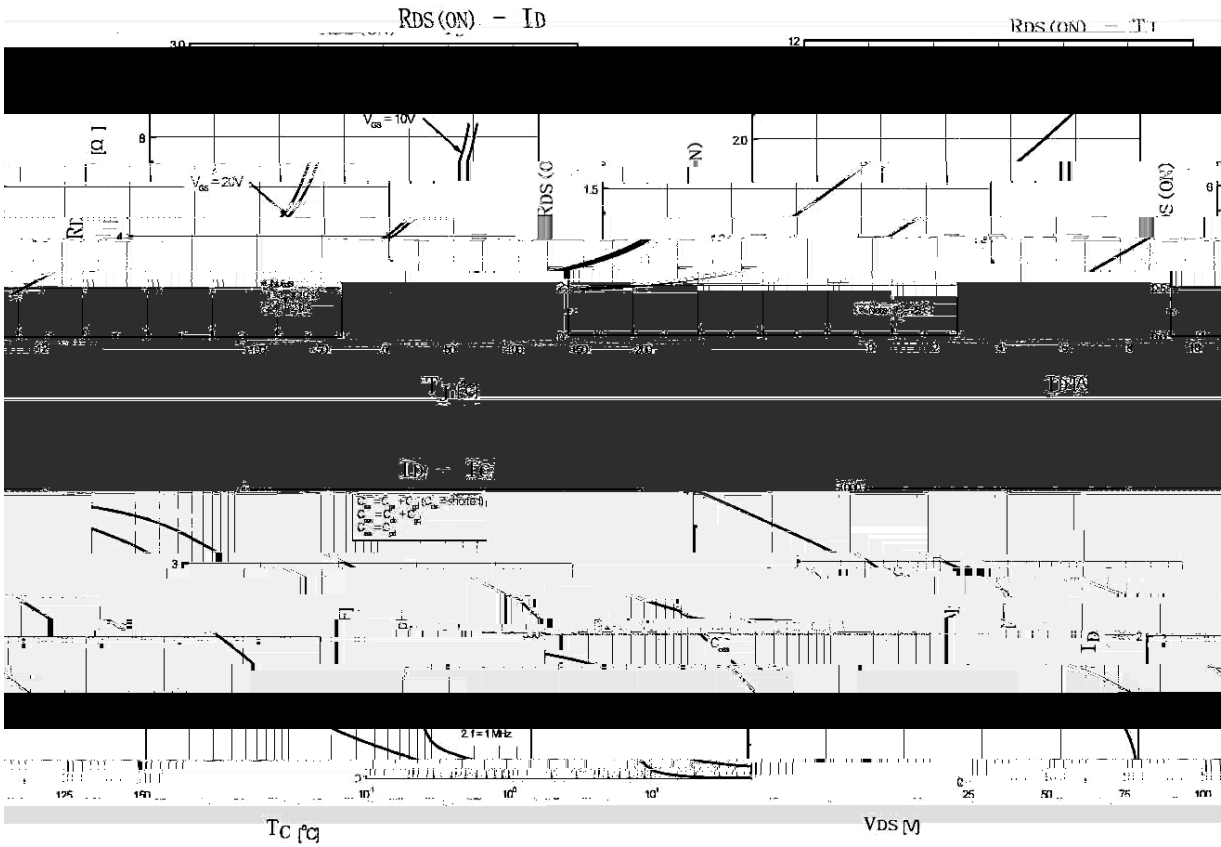
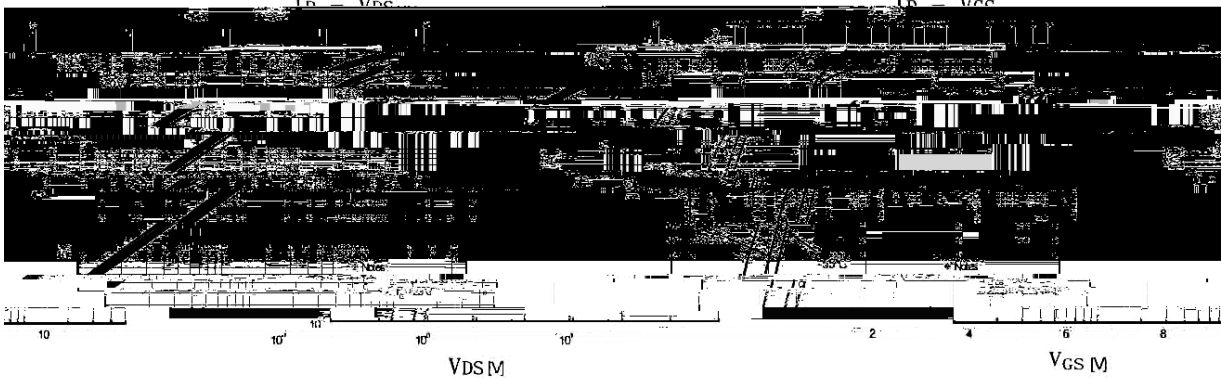
**/ h<sub>FE</sub> Classifications & Marking**

See Marking Instructions.

| Parameter                               | Symbol                       | Rating     | Unit |
|---|------------------------------|------------|------|
| Drain-Source Voltage                    | $V_{DSS}$                    | 600        | V    |
| Drain Current                           | $I_D(T_C=25^\circ\text{C})$  | 4.0        | A    |
| Drain Current                           | $I_D(T_C=100^\circ\text{C})$ | 2.5        | A    |
| Drain Current - Pulsed                  | $I_{DM}$                     | 16         | A    |
| Gate-Source Voltage                     | $V_{GSS}$                    | $\pm 30$   | V    |
| Single Pulsed Avalanche Energy          | $E_{AS}$                     | 240        | mJ   |
| Repetitive Avalanche Energy             | $E_{AR}$                     | 10         | mJ   |
| Avalanche Current                       | $I_{AR}$                     | 4.0        | A    |
| Power Dissipation                       | $P_D(T_C=25^\circ\text{C})$  | 100        | W    |
| Operating and Storage Temperature Range | $T_J, T_{STG}$               | -55 to 150 |      |

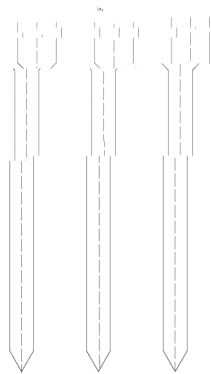
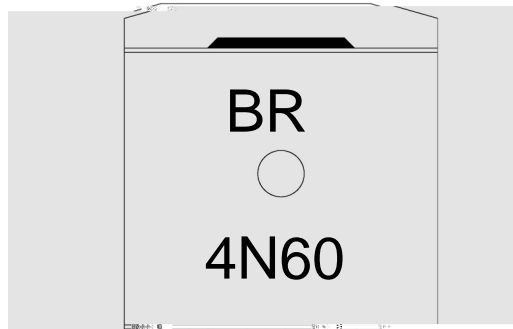
| Parameter                         | Symbol     | Test Conditions                       | Min | Typ | Max       | Unit    |
|-----------------------------------|------------|---------------------------------------|-----|-----|-----------|---------|
| Drain-Source Breakdown Voltage    | $BV_{DSS}$ | $V_{GS}=0V$ $I_D=250\mu A$            | 600 |     |           | V       |
| Zero Gate Voltage Drain Current   | $I_{DSS}$  | $V_{DS}=600V$ $V_{GS}=0V$             |     |     | 10        | $\mu A$ |
|                                   |            | $V_{DS}=480V$ $T_C=125^\circ\text{C}$ |     |     | 100       | $\mu A$ |
| Gate-Body Leakage Current Forward | $I_{GSS}$  | $V_{GS}=\pm 30V$ $V_{DS}=0V$          |     |     | $\pm 0.1$ |         |

/ Electrical Characteristic Curve





**/ Marking Instructions**



BR  
4N60

Note:

BR: Company Code

4N60: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

