

### / Descriptions

TO-263          N          MOS          N-CHANNEL MOSFET in a TO-263 Plastic Package.

### / Features

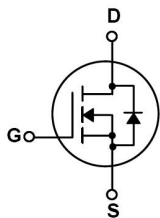
Low On-Resistance, fast switching.

### / 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 2,4   D          PIN 3   S

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

See Marking Instructions

| Parameter                             | Symbol                       | Rating     | Unit |
|---------------------------------------|------------------------------|------------|------|
| Drain-Source Voltage                  | $V_{DSS}$                    | 100        | V    |
| Drain Current                         | $I_D(T_c=25^\circ\text{C})$  | 59         | A    |
| Drain Current                         | $I_D(T_c=100^\circ\text{C})$ | 42         | A    |
| Single Avalanche Current              | $I_{DM}$                     | 240        | A    |
| Gate-Source Voltage                   | $V_{GSS}$                    | $\pm 20$   | V    |
| Single Pulsed Avalanche Energy        | $I_{AR}$                     | 15         | A    |
| Single Avalanche Energy               | $E_{AS}$                     | 170        | mJ   |
| Power Dissipation                     | $P_D(T_c=25^\circ\text{C})$  | 160        | W    |
| Storage Temperature Range             | $T_J, T_{STG}$               | -55 to 150 |      |
| Channel to Ambient Thermal Resistance | $R_{\theta JA}$              | 40         | /W   |

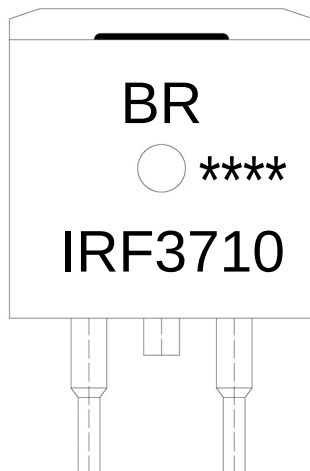
/ Electrical Characteristic Curve



Technical drawing of a mechanical assembly, showing a cross-section of a component with various dimensions labeled. The drawing includes a central circular feature and a rectangular block with a central hole. Dimensions are indicated by arrows and labels: A, B, C, D, E, 1, 2, 3, 4, 4', b1, b2, e1, e2. The drawing is a technical sketch of a mechanical part, likely a bracket or a support, showing a cross-section. The part has a central circular hole and a rectangular block with a central hole. Dimensions are indicated by arrows and labels: A, B, C, D, E, 1, 2, 3, 4, 4', b1, b2, e1, e2. The drawing is a technical sketch of a mechanical part, likely a bracket or a support, showing a cross-section. The part has a central circular hole and a rectangular block with a central hole. Dimensions are indicated by arrows and labels: A, B, C, D, E, 1, 2, 3, 4, 4', b1, b2, e1, e2.

| Dimensions In Millimeters |   |      |      |     |      | Dimensions In Millimeters |   |      |      |     |      |
|---------------------------|---|------|------|-----|------|---------------------------|---|------|------|-----|------|
| Symbol                    |   | Min  |      | Max |      | Symbol                    |   | Min  |      | Max |      |
| 9.40                      | A | 4.30 | 4.70 | E   | 9.00 | 9.74                      | B | 1.30 | 1.40 | G   | 2.35 |

/ Marking Instructions



BR

IRF3710

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Note:

BR: Company Code

IRF3710: Product Type.

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

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