

/ Descriptions

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

/ Features

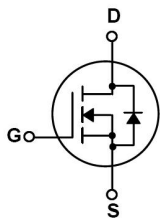
Low On-Resistance, fast switching.

/ 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

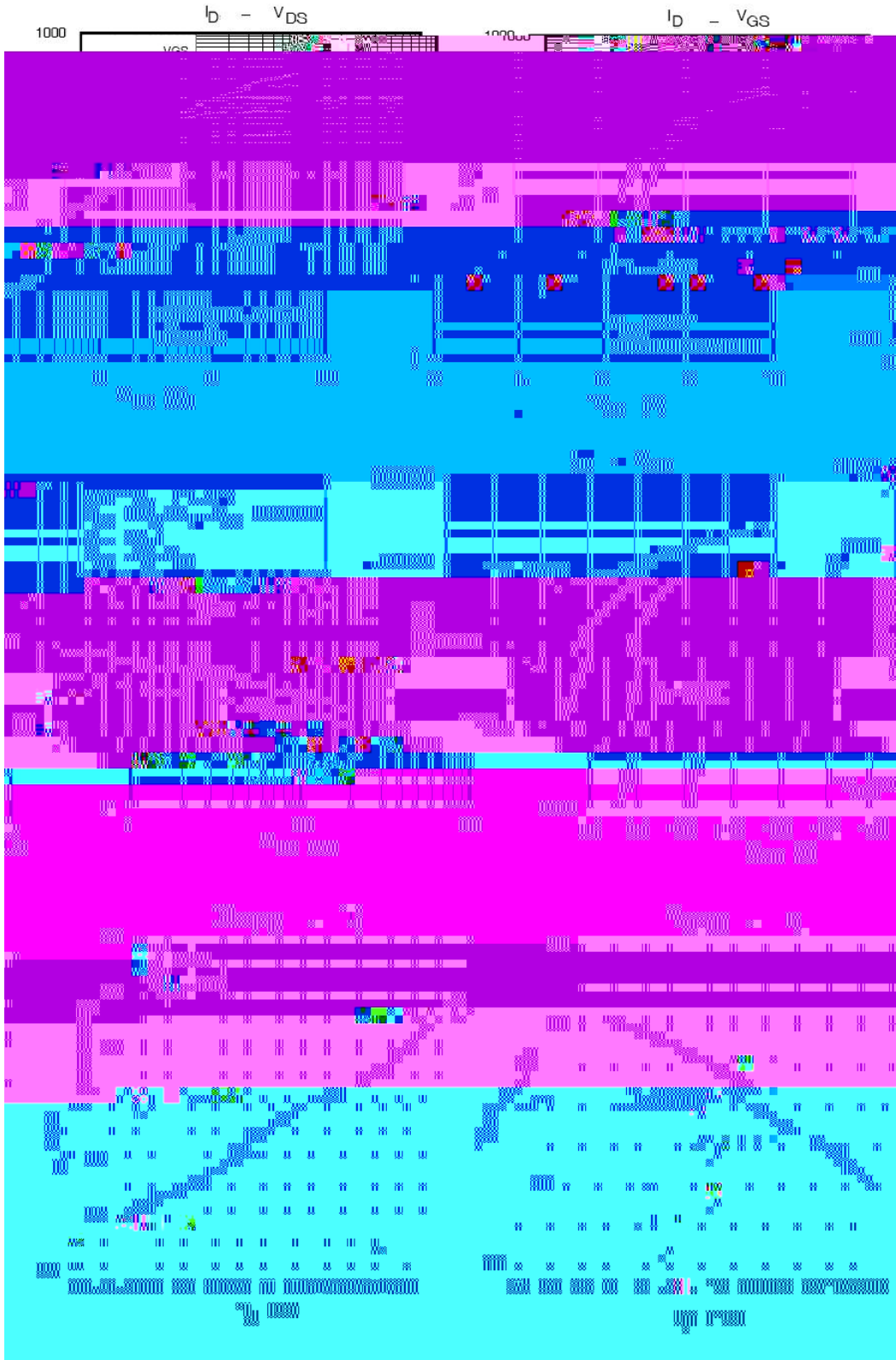
/ h_{FE} Classifications & Marking

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}	± 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

/W DJAD7Tm0783

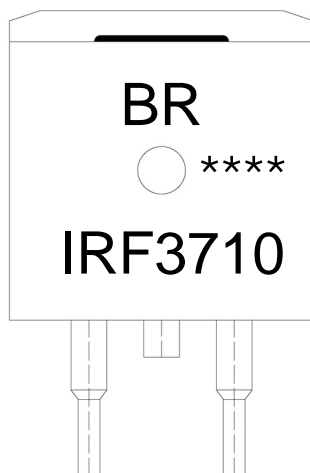
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

IRF3710

Note:

BR: Company Code

IRF3710: Product Type.

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

IRFB3710
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