

INCHANGE SEMICONDUCTOR

isc N-Channel Mosfet Transistor

IRF3710

• FEATURES

- Drain Current –I_D=57A@ T_C=25 $^\circ\!\!\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 23m Ω (Max)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

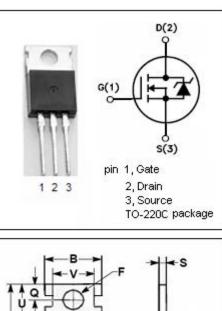
• Designed for high effciency switch mode power supplies, Power factor correction and electronic lamp ballasts based on half bridge.

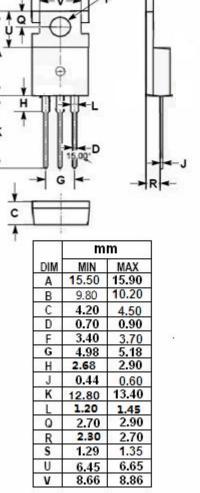
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 100		V
V _{GS}	Gate-Source Voltage-Continuous		V
ID	Drain Current-Continuous 57		А
I _{DM}	Drain Current-Single Plused	230	А
PD	Total Dissipation @T _c =25℃	200	W
Tj	Max. Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C

• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.75	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	62	°C/W





isc website: www.iscsemi.com

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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	100		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 28A		0.023	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} =0		25	uA
Vsd	Forward On-Voltage	I _S = 28A; V _{GS} =0		1.2	V

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