

isc N-Channel MOSFET Transistor

IRF730FI

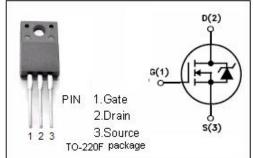
DESCRIPTION

- Drain Current –ID=3.5A@ TC=25 $^{\circ}\mathrm{C}$
- · Drain Source Voltage-
 - : V_{DSS}= 400V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 1.0 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



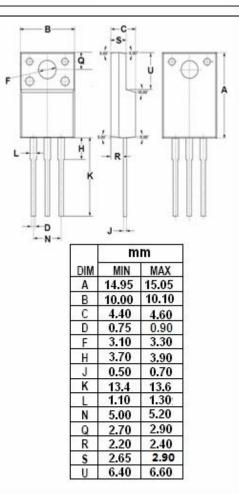
APPLICATIONS

 Designed especially for high voltage, high speed applications, such as off-line switching power supplies, UPS,AC and DC motor controls, relay and solenoid drivers.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25℃	3.5	Α
P _{tot}	Total Dissipation@TC=25℃ 35		W
Tj	Max. Operating Junction Temperature -55~150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.67	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	80	°C/W



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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 0.25mA	400		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 3.0A		1.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0		±500	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 400V; V _{GS} = 0		250	uA
V _{SD}	Diode Forward Voltage	I _F = 3.5A; V _{GS} = 0		1.6	V



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