

isc N-Channel MOSFET Transistor

IRF740

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 400V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.55 \Omega (Max)$
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION



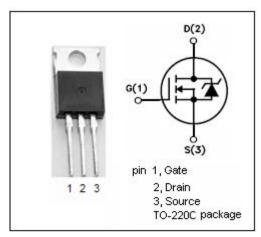
- · Switch mode power supply
- Uninterruptable power supply
- · High speed power switching

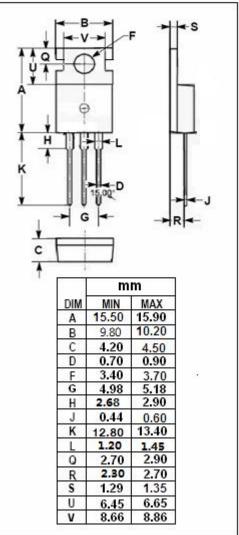
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400		
V _{GS}	Gate-Source Voltage ±30		V	
Ι _D	Drain Current-continuous@ TC=25℃	10	Α	
I _{DM}	Drain Current-Single Plused 40		Α	
P _{tot}	Total Dissipation@TC=25℃	al Dissipation@TC=25℃ 125		
Tj	Max. Operating Junction Temperature 150		$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.0	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	62	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	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	2.0		4.0	V
V _{SD}	Diode Forward On-voltage	I _S = 10A;V _{GS} = 0			2.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 6A			0.55	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =400V; V _{GS} = 0			25	μΑ



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