

isc N-Channel MOSFET Transistor

IRF740

DESCRIPTION

- Drain Current  $-I_D= 10A@ T_C=25^{\circ}C$
- Drain Source Voltage-  
:  $V_{DSS}= 400V(\text{Min})$
- Static Drain-Source On-Resistance  
:  $R_{DS(on)} = 0.55 \Omega (\text{Max})$
- Fast Switching Speed

APPLICATIONS

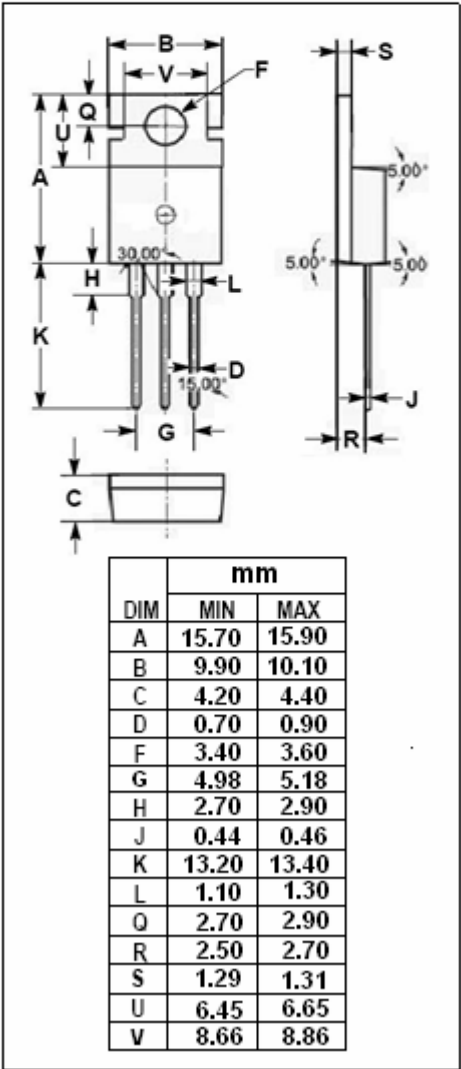
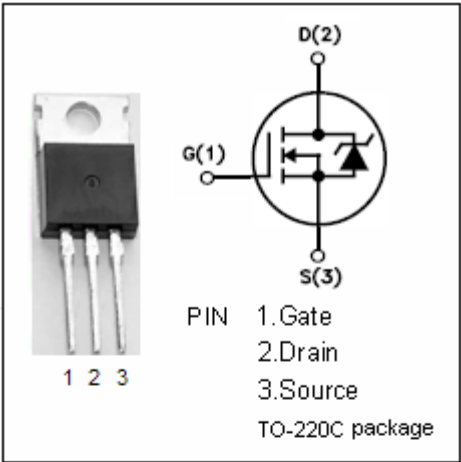
- Designed especially for high voltage,high speed applications, such as off-line switching power supplies , UPS,AC and DC motor controls,relay and solenoid drivers.

ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}C$ )

SYMBOL	ARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage ( $V_{GS}=0$ )	400	V
$V_{GS}$	Gate-Source Voltage	$\pm 20$	V
$I_D$	Drain Current-continuous@ $TC=25^{\circ}C$	10	A
$P_{tot}$	Total Dissipation@ $TC=25^{\circ}C$	125	W
$T_j$	Max. Operating Junction Temperature	150	$^{\circ}C$
$T_{stg}$	Storage Temperature Range	-65~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	1.0	$^{\circ}C/W$



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• ELECTRICAL CHARACTERISTICS (T<sub>C</sub>=25℃)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0; I <sub>D</sub> = 0.25mA	400		V
V <sub>GS(TH)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = V <sub>GS</sub> ; I <sub>D</sub> = 0.25mA	2	4	V
R <sub>DS(ON)</sub>	Drain-Source On-stage Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 5A		0.55	Ω
I <sub>GSS</sub>	Gate Source Leakage Current	V <sub>GS</sub> = ±20V; V <sub>DS</sub> = 0		±500	nA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> = 400V; V <sub>GS</sub> = 0		250	uA
V <sub>SD</sub>	Diode Forward Voltage	I <sub>F</sub> = 10A; V <sub>GS</sub> = 0		2.2	V