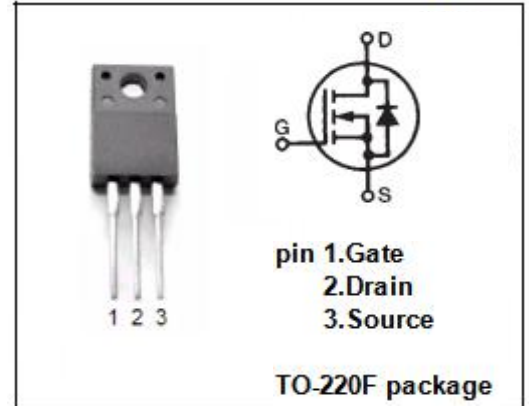


isc N-Channel MOSFET Transistor
IRFS633
FEATURES

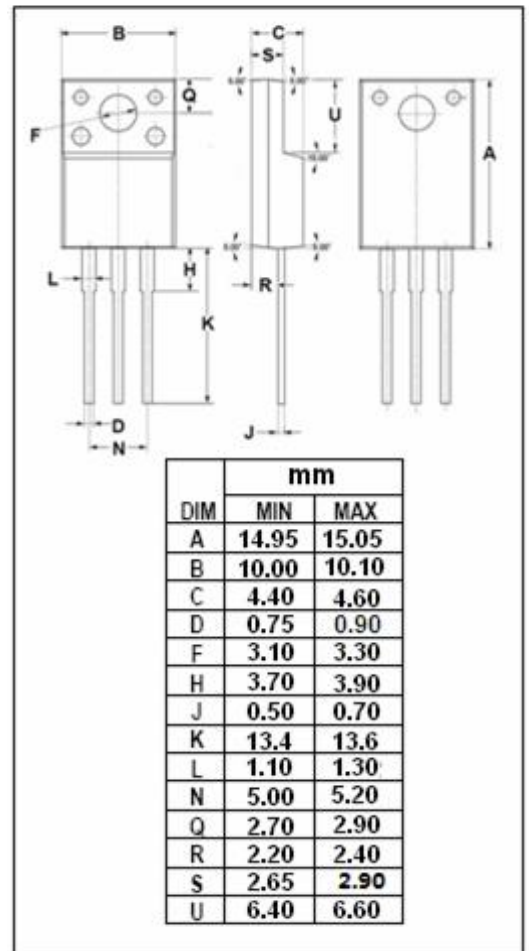
- Drain Current $-I_D=5.5A@ T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS}= 150V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(on)} = 0.6 \Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

- motor drive, DC-DC converter, power switch and solenoid drive.


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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	150	V
V_{GS}	Gate-Source Voltage-Continuous	± 20	V
I_D	Drain Current-Continuous	5.5	A
P_D	Total Dissipation @ $T_C=25^\circ C$	35	W
T_J	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	3.57	$^\circ C/W$

isc N-Channel MOSFET Transistor

IRFS633

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	150	--	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =-10V; I _D =0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2.75A	--	0.6	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V; V _{DS} = 0	--	±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =150V; V _{GS} = 0	--		uA
V _{SD}	Forward On-Voltage	I _S =5.5A; V _{GS} = 0	--	1.5	V

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