

isc N-Channel MOSFET Transistor

FDP14N60

FEATURES

- Drain Current : I_D =14A@ T_C=25°C
- Drain Source Voltage
- : V_{DSS}= 600V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.49 \Omega (Max) @V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



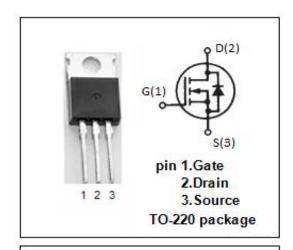
 motor drive, DC-DC converter, power switch and solenoid drive.

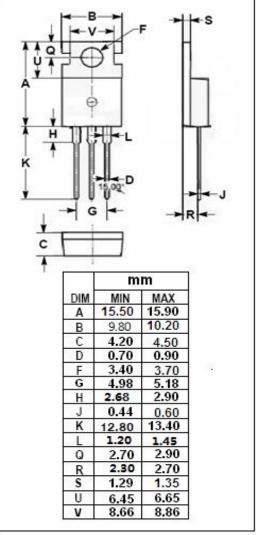
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	600	V			
V _{GS}	Gate-Source Voltage-Continuous	±30	V			
I _D	Drain Current-Continuous	14	А			
І _{ОМ}	Drain Current-Single Pluse	56	А			
P _D	Total Dissipation @T _C =25℃	300	W			
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$			
T _{stg}	Storage Temperature	-55~175	$^{\circ}$			

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.50	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	600	-	V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 7A	-	0.49	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0	-	±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0	-	25	uA
V _{SD}	Forward On-Voltage	I _S =14A; V _{GS} = 0	-	1.2	V

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