

isc N-Channel Mosfet Transistor

14N60

• FEATURES

- Drain Current $I_D = 14A @ T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS} = 600V$ (Min)
- Low ON Resistance $R_{DS(on)} = 0.55 \Omega$ (Max)
- International standard packages
- Avalanche rated

• DESCRITION

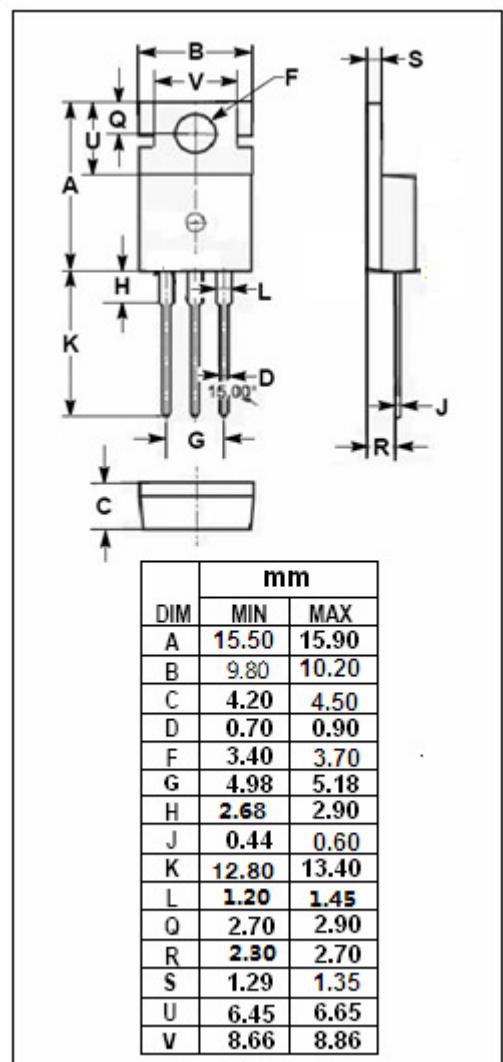
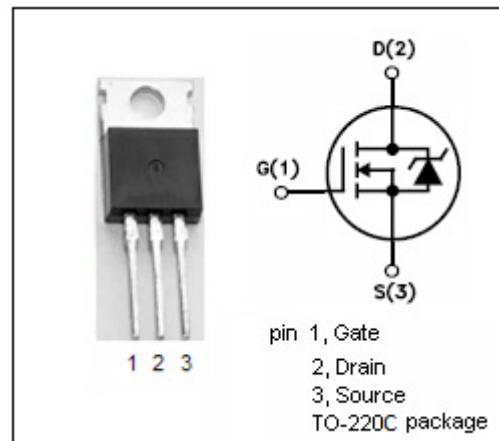
- Switched-mode and resonant-mode power supplies
- DC-DC Converters
- Laser Drivers
- AC and DC motor drives
- Robotics and servo controls

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

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	A
I_{DM}	Drain Current-Single Plused	42	A
P_D	Power Dissipation	112	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature range	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.1	$^\circ C/W$
$R_{th j-a}$	Thermal Resistance, Junction to Ambient	65	$^\circ C/W$



isc N-Channel Mosfet Transistor**14N60****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	600		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	3.0	5.5	V
R _{D(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 7A		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} = 600V; V _{GS} = 0		5	μ A
V _{SD}	Forward On-Voltage	I _S = 14A; V _{GS} = 0		1.5	V

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