

isc N-Channel MOSFET Transistor

IRFP150A

FEATURES

- Drain Current –I_D= 43A@ T_C=25 $^\circ\!\!\!\mathrm{C}$
- Drain Source Voltage-
- : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 0.04 Ω (Max)
- Fast Switching
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

• Designed for use in switch mode power supplies and general purpose applications.

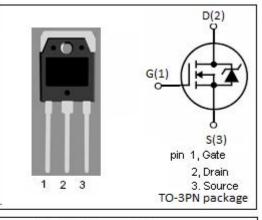
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

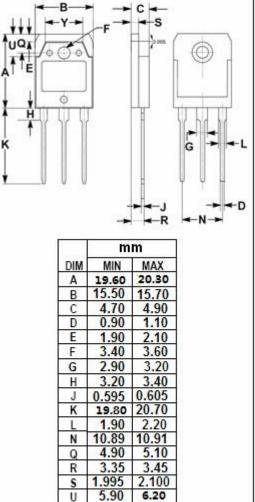
SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	43	А
I _{DM}	Drain Current-Single Pluse	170	А
P _D	Total Dissipation @T _C =25℃	193	W
TJ	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature -55		°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.7	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	30	°C/W

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.25mA	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	2	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 21.5A		0.04	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		250	μA
V _{SD}	Forward On-Voltage	I _S = 43A; V _{GS} = 0		1.6	V

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