

isc N-Channel MOSFET Transistor

IPP80N08S2L-07

DESCRIPTION

- Drain Current I_D= 80A@ T_C=25℃
- Drain Source Voltage- V_{DSS}=75V(Min)
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

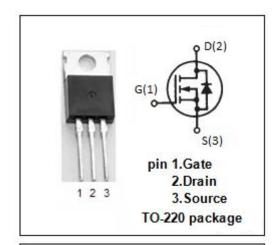
- Switch Mode Power Supply (SMPS)
- Uninterruptible Power Supply (UPS)
- · High current switching applications
- DC-DC converter and motor drive applications

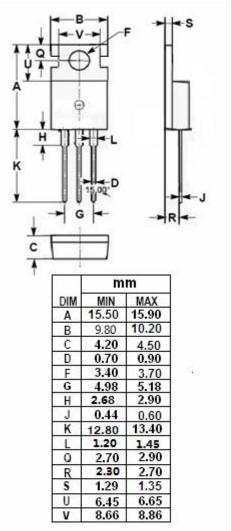
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	75	V
V_{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ T _C =25 ℃	80	А
I _{DM}	Drain Current-Single Pluse	320	А
P _{tot}	Total Dissipation@T _C =25°C	250	W
T _j	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT					
R _{th j-c}	Thermal Resistance,Junction to Case	0.5	°C/W					





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• ELECTRICAL CHARACTERISTICS (Tc=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} =0; I _D = 1mA	75	-	-	V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} , I _D = 250μA	1.2	1.6	2.0	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 10V; I _D = 67A	-	6.0	7.1	mΩ
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0	-	-	±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 75V, V _{GS} = 0V, T _J = 25°C	-	-	1	μA
V _{SD}	Diode Forward Voltage	I _S =80A; V _{GS} =0V	-	-	1.3	V

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