

isc N-Channel MOSFET Transistor

ISP80N08S2L

FEATURES

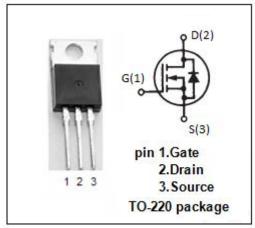
- Drain Current –I_D= 80A@ T_C=25 °C
- Drain Source Voltage-V_{DSS}= 75V(Min)
- Static Drain-Source On-Resistance R_{DS(on)}:7.1m Ω (Max)
- 175° C operating temperature
- · Advanced trench process technology
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

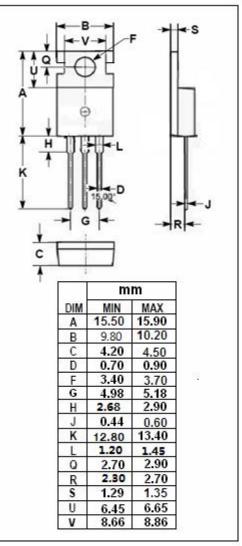
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage 75		
V_{GS}	Gate-Source Voltage-Continuous	ource Voltage-Continuous ±20	
I _D	Drain Current-Continuous 80		Α
І _{ОМ}	Drain Current-Single Pluse 280		А
P_D	Total Dissipation @T _C =25°C 300		W
TJ	Max. Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	℃

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℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1.0mA	75		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.0	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 80A		7.1	mΩ
lgss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 75V; V _{GS} = 0		1.0	μА
V _{SD}	Forward On-Voltage	I _S = 80A; V _{GS} = 0		1.3	V

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