

isc N-Channel MOSFET Transistor

STP4NA80

FEATURES

- Drain Current : I_D= 4.0A@ T_C=25℃
- Drain Source Voltage
 - : V_{DSS}= 800V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 3.0 \Omega (Max) @ V_{GS} = 10V$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

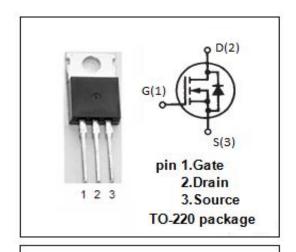
 motor drive, DC-DC converter, power switch and solenoid drive.

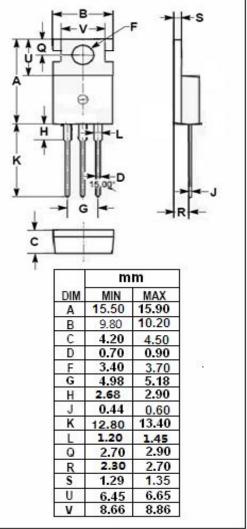
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	800	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	4.0	А
І _{DМ}	Drain Current-Single Pluse	16	А
P _D	Total Dissipation @T _C =25℃ 110		W
TJ	Max. Operating Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.13	°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	800		V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D = 0.25mA	2.25	3.75	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 2.0A		3.0	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0		±0.1	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 800V; V _{GS} = 0		250	uA
V _{SD}	Forward On-Voltage	I _S = 4.0A; V _{GS} = 0		1.6	V



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