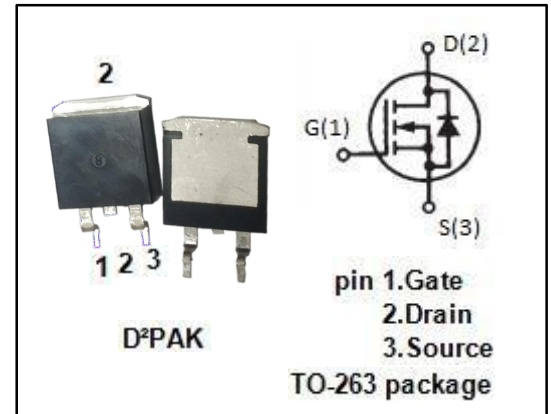


isc N-Channel MOSFET Transistor
SSP3N80A
FEATURES

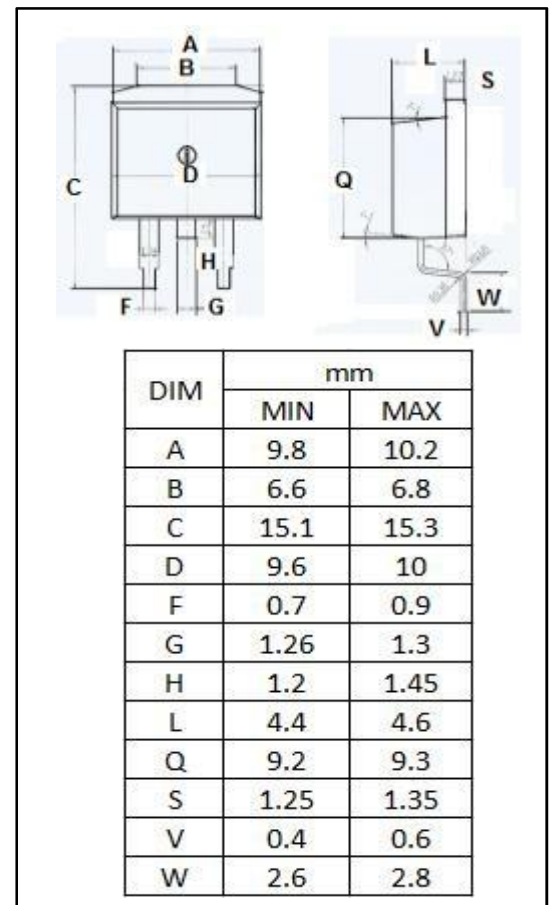
- Drain Current $-I_D=4A@ T_C=25^\circ C$
- Drain Source Voltage-
: $V_{DSS}= 800V(\text{Min})$
- Static Drain-Source On-Resistance
: $R_{DS(\text{on})} =4.0 \Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

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


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

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	A
I_{DM}	Drain Current-Single Pluse	16	A
P_D	Total Dissipation @ $T_C=25^\circ C$	120	W
T_J	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$


THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.04	$^\circ C/W$

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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0; I_D=0.25\text{mA}$	800	--	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=5\text{V}; I_D=-0.25\text{mA}$	2.0	3.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}; I_D=0.85\text{A}$	--	4.0	Ω
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 30\text{V}; V_{DS}=0$	--	± 0.1	μA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=800\text{V}; V_{GS}=0$	--	25	μA
V_{SD}	Forward On-Voltage	$I_S=4\text{A}; V_{GS}=0$	--	1.4	V

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