

## isc N-Channel MOSFET Transistor

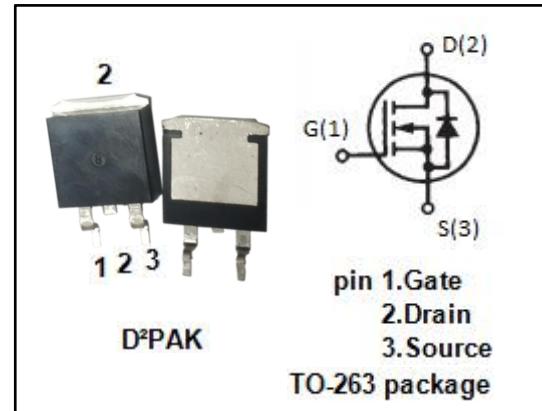
## SSP2N80A

## FEATURES

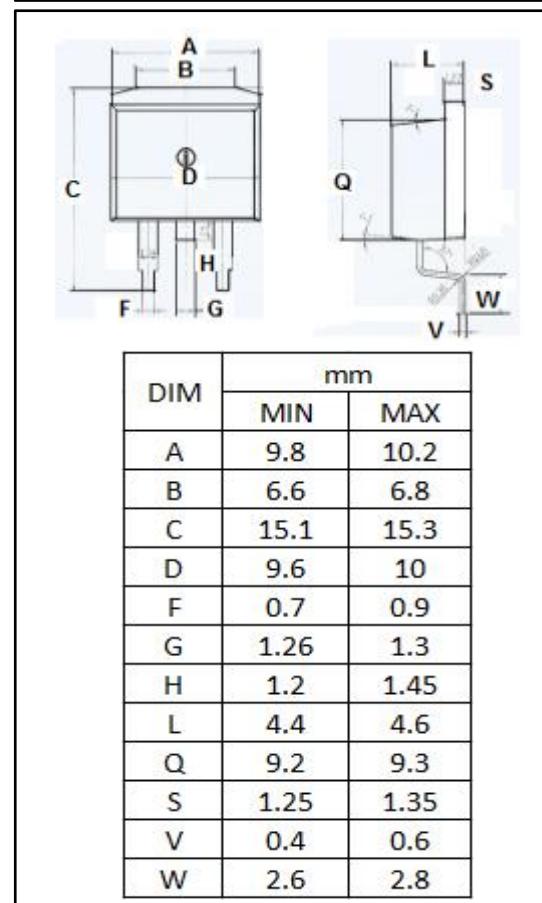
- Drain Current – $I_D=2A$  @  $T_C=25^\circ C$
- Drain Source Voltage-
  - :  $V_{DSS}= 800V$ (Min)
- Static Drain-Source On-Resistance
  - :  $R_{DS(on)} =6.0 \Omega$  (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## 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	$\pm 30$	V
$I_D$	Drain Current-Continuous	2	A
$I_{DM}$	Drain Current-Single Pulse	8	A
$P_D$	Total Dissipation @ $T_c=25^\circ C$	80	W
$T_J$	Max. Operating Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55~150	°C



## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.56	°C/W

**isc N-Channel MOSFET Transistor****SSP2N80A****ELECTRICAL CHARACTERISTICS****T<sub>C</sub>=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V <sub>(BR)DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> = 0; I <sub>D</sub> = 0.25mA	800	--	V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> = 5V; I <sub>D</sub> =-0.25mA	2.0	3.5	V
R <sub>Ds(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =1A	--	6	Ω
I <sub>GSS</sub>	Gate-Body Leakage Current	V <sub>GS</sub> = ±30V; V <sub>DS</sub> = 0	--	±0.1	uA
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>DS</sub> =800V; V <sub>GS</sub> = 0	--	25	uA
V <sub>SD</sub>	Forward On-Voltage	I <sub>S</sub> =2A; V <sub>GS</sub> = 0	--	1.4	V

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