



# ACE1S30N15B

## N-Channel Enhancement Mode Power MOSFET

### General Description

- DC/DC power supplies
- Industrial motor drives

### Features

- $V_{DS}=150V$
- $I_D=22A$
- $R_{DS(ON)}@V_{GS}=10V$ , TYP 43m $\Omega$
- $R_{DS(ON)}@V_{GS}=6V$ , TYP 48m $\Omega$

### Absolute Maximum Ratings

At  $T_A=25^\circ C$  unless otherwise noted

Parameter		Symbol	Ratings	Units
Drain-Source Voltage		$V_{DSS}$	150	V
Gate-Source Voltage		$V_{GSS}$	$\pm 25$	V
Drain Current (Continuous) *AB	$T_C=25^\circ C$	$I_D$	22	A
	$T_C=70^\circ C$		17.6	
Drain Current (Pulse) *C		$I_{DM}$	88	A
Power Dissipation	$T_C=25^\circ C$	$P_D$	69.4	W
Operating temperature / storage temperature		$T_J/T_{STG}$	-55 to 150	$^\circ C$

### Thermal Resistance Ratings

Parameter		Symbol	Typ	Max	Units
Maximum Junction-to-Ambient	$t \leq 10$ s	$R_{thJA}$	19	24	$^\circ C/W$
	Steady State	$R_{thJA}$	52	65	
Maximum Junction-to-Case (Drain)	Steady State	$R_{thJC}$	1.5	1.8	

Note:

A: The value of  $R_{\theta JA}$  is measured with the device mounted on 1in<sup>2</sup> FR-4 board with 2oz. Copper, in a still air environment with  $T_A=25^\circ C$ . The value in any given application depends on the user's specific board design.

B: The current rating is based on the  $t \leq 10$ s junction to ambient thermal resistance rating.

C: Repetitive rating, pulse width limited by junction temperature.

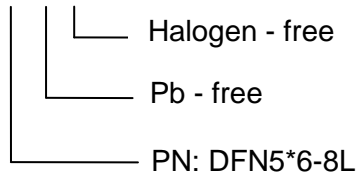


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## Ordering Information

ACE1S30N15B XX + H





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### Notes

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1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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