



# ACE11080A

## N-Channel Enhancement Mode MOSFET

### Description

The ACE11080A is the N-Channel logic enhancement mode power field effect transistors are produced using high cell density, DMOS trench technology. This high density process is especially tailored to minimize on-state resistance. These devices are particularly suited for low voltage application, notebook computer power management and other battery powered circuits where high-side switching.

### Features

- 100V/74A,  $R_{DS(ON)}=8.0m\Omega@V_{GS}=10V$
- 100V/74A,  $R_{DS(ON)}=10.5m\Omega@V_{GS}=4.5V$
- Super high density cell design for extremely low  $R_{DS(ON)}$
- Exceptional on-resistance and maximum DC current capability
- DFN5\*6-8L package design

### Applications

- DC/DC Converter
- Load Switch
- Synchronous Buck Converter
- SMPS Secondary Side Synchronous Rectifier
- Motor Control
- Power Tool

### Absolute Maximum Ratings

( $T_A=25^\circ C$  Unless otherwise noted)

Parameter	Symbol	Typical	Unit	
Drain-Source Voltage	$V_{DSS}$	100	V	
Gate-Source Voltage	$V_{GSS}$	$\pm 20$	V	
Continuous Drain Current ( $T_J=150^\circ C$ )	$T_A=25^\circ C$	74	A	
	$T_A=100^\circ C$	47		
Pulsed Drain Current	$I_{DM}$	260	A	
Avalanche Energy Single Pulse ( $L=0.4mH, T_C=25^\circ C$ )	$E_{AS}$	245	mJ	
Power Dissipation	$T_A=25^\circ C$	$P_D$	83	A
Operating Junction Temperature	$T_J$	-55~150	$^\circ C$	
Storage Temperature Range	$T_{STG}$	-55~150	$^\circ C$	
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	1.5	$^\circ C/W$	

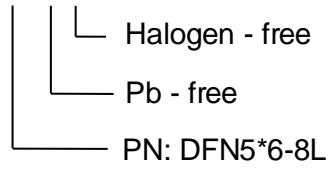


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### Ordering information

ACE11080A XX + H





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### Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As used herein:

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.