



# ACE11560LA

## 60V N-Channel Power MOSFET

### Description

The ACE11560LA uses advanced trench technology to provide excellent  $R_{DS(ON)}$ , low gate charge. It can be used in a wide variety of applications.

### Features

- $V_{DS} = 60V, I_D = 50A$
- $R_{DS(ON)} < 15m\Omega @ V_{GS}=10V$
- $R_{DS(ON)} < 18m\Omega @ V_{GS}=4.5V$
- High density cell design for lower  $R_{DS(ON)}$
- Fully characterized avalanche voltage and current
- Good stability and uniformity with high EAS
- Excellent package for good heat dissipation

### Applications

- Power switching application
- Hard switched and High frequency circuits
- Uninterruptible power supply

### Absolute Maximum Ratings ( $T_A=25^\circ C$ Unless otherwise noted)

Parameter	Symbol	Typical	Unit
Drain-Source Voltage	VDS	60	V
Gate-Source Voltage	VGS	$\pm 20$	V
Drain Current-Continuous	ID	50	A
Drain Current-Pulsed <sup>(Note 1)</sup>	IDM	200	A
Maximum Power Dissipation( $T_c=25^\circ C$ )	PD	87	W
Single pulse avalanche energy <sup>(Note 2)</sup>	EAS	120	mJ
Operating Junction and Storage Temperature Range	TJ,TSTG	-55 To 175	$^\circ C$

Notes:

1. Repetitive Rating: Pulse width limited by maximum junction temperature.
2. EAS condition :  $T_j=25^\circ C, V_{DD}=30V, V_{GS}=10V, L=0.5mH, R_g$

### Thermal Characteristic

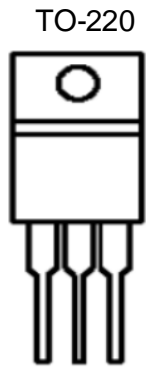
Parameter	Symbol	Typical	Unit
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	1.72	$^\circ C / W$



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## Packaging Type



## Ordering information

ACE11560LA XX + H

- └─ Halogen - free
- └─ Pb - free
- └─ ZM: TO-220
- └─ YM: TO-252



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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.