



ACE110026A

N-Channel Enhancement Mode MOSFET

Description

The ACE110026A is the N-Channel enhancement mode power field effect transistors which is produced using super high cell density DMOS trench technology. The ACE110026A has been designed specifically to improve the overall efficiency of DC/DC converters using either synchronous or conventional switching PWM controllers, It has been optimized for low gate charge, low $R_{DS(ON)}$ and fast switching speed.

Features

- 100V/3A, $R_{DS(ON)}=310m\Omega@V_{GS}=10V$
- High density cell design for extremely low $R_{DS(ON)}$
- Exceptional on-resistance and maximum DC current capability
- SOT-23-6 package design

Applications

- Powered System
- DC/DC Converter
- Load Switch

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}	± 20	V
Continuous Drain Current ($T_J=150^\circ C$)	$T_A=25^\circ C$	3.0	A
	$T_A=70^\circ C$	2.0	
Pulsed Drain Current	I_{DM}	10	A
Power Dissipation	$T_A=25^\circ C$	2.0	W
	$T_A=70^\circ C$	1.3	
Operating Junction Temperature	T_J	-55~150	$^\circ C$
Storage Temperature Range	T_{STG}	-55~150	$^\circ C$
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	62.5	$^\circ C/W$

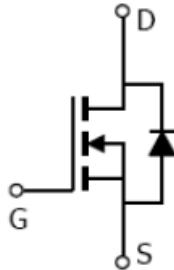
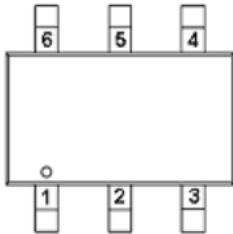


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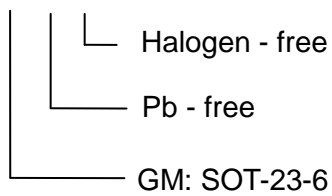
Packaging Type

SOT-23-6



Ordering information

ACE110026A 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.

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