

ACE2320M N-Channel 20-V MOSFET

Description

ACE2320M uses advanced trench technology to provide excellent $R_{DS(ON)}$.

This device particularly suits for low voltage application such as power management of desktop computer or notebook computer power management, DC/DC converter.

Features

- Low r_{DS(on)} provides higher efficiency and extends battery life
- Low thermal impedance copper leadframe SOT-23 saves board space
- Fast switching speed
- High performance trench technology

Applications

- White LED boost converters
- Automotive Systems
- Industrial DC/DC Conversion Circuits

Absolute	Maximum	Ratings
/ 18001410	Maximani	natingo

Parameter	Symbol	Limit	Units	
Drain-Source Voltage		V_{DS}	20	V
Gate-Source Voltage		V_{GS}	±8	V
Continuous Drain Current ^a	T _A =25 ℃	1	7.0	A
	T _A =70°C	١D	5.5	
Pulsed Drain Curre	I _{DM}	20	А	
Continuous Source Current (Diode Conduction) ^a		I _S	1.9	А
Power Dissipation ^a	T _A =25 ℃	D_	1.3	W
	T _A =70 °C	ГD	0.8	
Operating temperature / storag	T_J/T_{STG}	-55~150	°C	

THERMAL RESISTANCE RATINGS							
Parameter		Symbol	Maximum	Units			
Maximum Junction-to-Ambient ^a	t <= 10 sec	R _{θJA}	100	°C/W			
	Steady State		166				

Notes

a. Surface Mounted on 1" x 1" FR4 Board.

b. Pulse width limited by maximum junction temperature



Ordering information





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 Electronics Co., LTD. As sued herein:

- 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 shoes 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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