



ACE711E

2A, 20V Step-Up Regulator

Description

The ACE711E is a high efficiency step-up converter with an internally integrated 20V power MOSEFT. It runs with an optimal 1MHz frequency that enables the use of small external components while still providing the best efficiency. It can drive up to 2A output current. The incorporated true PWM-Diming feature through EN pin enable one further digitally program the output voltage lower. For maximum protection, the ACE711E has an OVP protection feature that prevents the output voltage exceeding the maximum rating of the ACE711E and the output cap during open conditions.

Features

- Up to 95% Efficiency
- 20V OVP protection
- True PWM Brightness Control
- 200mV Feedback Voltage
- 2.5A current limit
- SOT23-6 Package

Application

- Portable power bank
- Powering 3G module
- Large LCD display backlight driving up to 90 LEDs
- Satellite STB
- Bluetooth Speaker
- Large TFT screen bias
- Other application which needs high voltage and high current generation

Absolute Maximum Ratings

(Note: Exceeding these limits may damage the device. Exposure to absolute maximum rating conditions for long periods may affect device reliability.)

Parameter		Value
SW Voltage		-0.3V~25V
All Other PIN Voltages		-0.3V~6.5V
SW to ground current		Internally limited
Junction Temperature		150°C
Storage Temperature Range		-55°C~150°C
Thermal Resistance	ΘJA	130 °C/W
	ΘJC	50 °C/W



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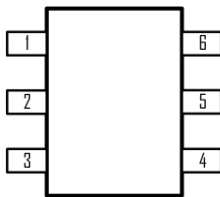
Recommended Operating Conditions

(Note: The device is not guaranteed to function outside its operating conditions.)

Parameter	Value
Ambient Temperature Range	-40°C~85°C
Junction Temperature Range	-40°C~125°C

Packaging Type

SOT-23-6



Ordering information

ACE711E XX + H

- └─ Halogen - free
- └─ Pb - free
- └─ GM : SOT-23-6



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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.

ACE Technology Co., LTD.
<http://www.ace-ele.com/>