



ACE7123LE

1.2MHz Boost DC/DC Converter

Description

The ACE7123LE switches at 1.2MHz and allows the use of tiny, low-cost capacitors and inductors 2mm or less in height. The ACE7123LE is a constant frequency, current mode step-up converter intended for small, low power applications. The ACE7123LE includes under-voltage lockout, current limiting, thermal shutdown protection and output over voltage protection. Internal soft-start results in small inrush current and extends battery life.

Features

- Switching frequency: 1.2MHz
- Internal switch current limit: 2A
- Integrated 80mΩ power MOSFET
- Input voltage: 2.5V to 24V
- Output voltage: Up to 26V
- Accurate reference: 0.6V
- Thermal shutdown
- Internal compensation
- Available in SOT-23-5 package

Application

- DVB-S/DVB-S2
- ABS set-top boxes

Absolute Maximum Ratings

Parameter		Value
VIN, EN pin voltage		-0.3V to 24V
SW pin voltage		-0.3V to 24V
All other pin voltage		-0.3V to 6V
Lead temperature & time		260°C, 10sec
Power dissipation	PD	600mW
Junction temperature	T _J	150°C
Storage temperature	T _S	-65°C to 150°C
Thermal resistance	θ _{JA}	250°C/W
Thermal resistance	θ _{JC}	130°C/W



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Recommended Work Conditions

Parameter		Value
Input voltage range		2.5V to 24V
Output voltage range		VIN to 26V
Operating ambient temperature	T _A	-40°C to 85°C

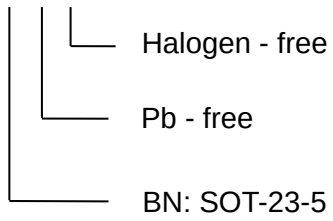


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Ordering Information

ACE7123LE 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 stated 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.
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