



ACE7C340WX

High Performance Regulated Charge Pump

Description

The ACE7C340WX is a high performance charge pump DC/DC converter that produces a regulated 5V output. No external inductor is required for operation. The operating voltage range is 2.8V to V_{OUT} . Internal soft-start circuitry effectively reduces the in-rush current both while start-up and mode change. The ACE7C340WX features very low quiescent current, over current protection and short circuit protection. The ACE7C340WX is available in SOT-23-6 package.

Features

- 2x Mode for Ultra-High Efficiency
- 2.8V to V_{OUT} Range Input Voltage
- Soft Start Function
- Built-In Short-Circuit Protection
- 340KHz Fixed frequency
- Built-in Thermal Protection
- Over Current Protection Function
- $I_{SD} < 1\mu A$ in Shutdown
- SOT-23-6 Package
- RoHS Compliant and 100% Lead (Pb)-Free

Application

- LCD Panel
- Cellular and Smart mobile phone
- PDA/DSC
- Flash LED Driver



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Absolute Maximum Ratings ^(Note)

Item	Min	Max	Unit
Input Voltage to GND (V_{IN})		5.5	V
EN to GND Voltage (V_{EN})	0.3	$V_{IN}+0.3$	V
Maximum Power Dissipation (P_D)		0.45	W
Thermal Resistance (J_A)		250	°C/W
Operating Junction Temperature Range		125	°C
Operation Ambient Temperature Range	20	85	°C
Maximum Soldering Temperature (at leads, 10sec)		260	°C

Note:

Stresses beyond those listed under “Absolute Maximum Ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ESD Susceptibility

Item	Min	Max	Unit
HBM (Human Body Mode)		2	KV
MM (Machine Mode)		200	V

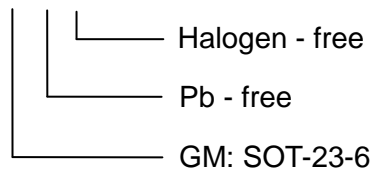


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Ordering Information

ACE7C340WX 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.

ACE Technology Co., LTD.
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