



ACE5345Z

45V Input Voltage, 2.5uA Ultra-low Iq, 300mA LDO

Description

ACE5345Z is a low-dropout (LDO) linear voltage regulator that features ultra-low standby current as low as 2.5uA. It can withstand input voltage up to 48V and deliver 300mA output current.

ACE5345Z can provide fixed output voltages with wide input voltage range from 3V to 45V. The device also includes short circuit protection, UVLO and thermal shutdown.

ACE5345Z is housed in a tiny SOT23-5 and DFN1.6x1.6-6 package.

Features

- Wide Input Voltage Range: from 3V to 45V
- Ultra-Low Quiescent Current: 2.5uA
- 300mA Output Current
- Stable with a Wide Range of Ceramic Capacitor, Larger than 1μF
- High PSRR, 70dB at 1KHz
- Integrated Thermal and Current Limit
- SOT23-5 and DFN1.6x1.6-6 Package
- RoHS Compliant

Application

- Portable Equipment
- Multi-cell Battery-Powered System
- NB-IoT Module

Absolute Maximum Rating

Parameter		Value	
VIN, EN to GND Voltage		-0.3V to 48V	
VOUT to GND Voltage		-0.3V to 40V	
Operating Temperature Range		40°C to 85°C	
Storage Temperature Range		55°C to 150°C	
Thermal Resistance	θ_{JA}	SOT-23-5	220°C/W
		DFN1.6*1.6-6	46.5°C/W
	θ_{JC}	SOT-23-5	110°C/W
		DFN1.6*1.6-6	18.6°C/W
Lead Temperature (Soldering 10sec)		260°C	

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

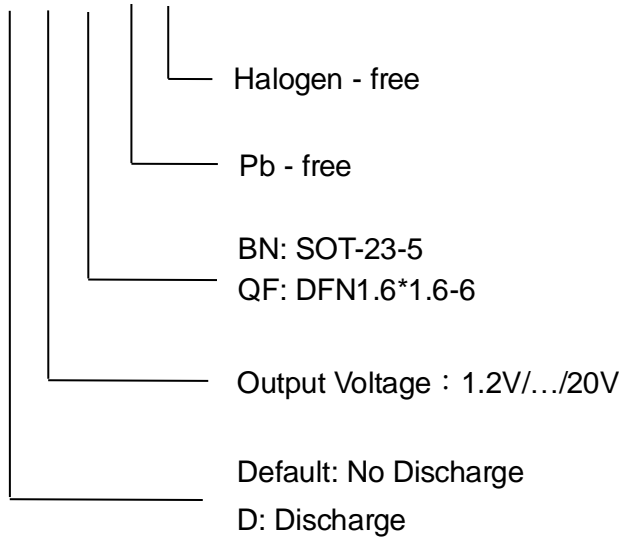


ACE5345Z

45V Input Voltage, 2.5uA Ultra-low Iq, 300mA LDO

Ordering information

ACE5345Z X XX XX + H





ACE5345Z

45V Input Voltage, 2.5uA Ultra-low Iq, 300mA LDO

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.