ACE506C

300mA Low Consumption Linear Regulator

Description

ACE506C series are a group of positive voltage output, high precise and high PSRR and low power consumption voltage regulator. Voltages are selectable in 100mV steps within a range of 1.2V to 3.6V. It also can be customized on command.

ACE506C series have excellent load and line transient response and good temperature characteristics, which can assure the stability of chip and power system. And it uses trimming technique to guarantee output voltage accuracy within ±2%.

Features

- Low Quiescent Current: 1uA at 5V
- 60dB PSRR at 100Hz
- Low Output Noise: 44uV_{RMS}
- Low Dropout: 280mV at 150mA load
- Low Temperature Coefficient: ±100ppm/^{O}C
- Excellent Line Regulation: 0.05%/V
- Highly Accurate: ±2%

Application

- Reference Voltage Source
- Battery Powered Equipment
- Hand-Held Equipment
- Wireless LAN
- GPS Receivers

Absolute Maximum Ratings

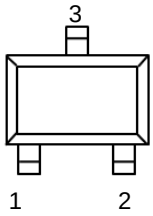
Parameter		Value
Max Input Voltage		7V
Operating Junction Temperature (TJ)		125^{O}C
Ambient Temperature (TA)		-40^{O}C ~85^{O}C
Power Dissipation	TSOT-23-3, SOT-23-5	250mW
	SOT-89-3	500mW
Storage Temperature (TS)		-40^{O}C~150^{O}C
Lead Temperature & Time		260^{O}C, 10 Sec

Note: Exceed these limits to damage to the device.

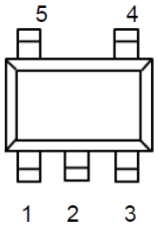
Exposure to absolute maximum rating conditions may affect device reliability.

Packaging Type

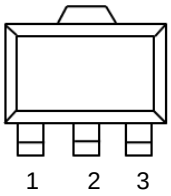
TSOT-23-3



SOT-23-5



SOT-89-3



Ordering information

ACE506C XX XX + H

- Halogen - free
- Pb - free
- BMS: TSOT-23-3
  BN: SOT-23-5
  AM: SOT-89-3
- Output Voltage：1.2V/1.5V…..3.6V

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 sued 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 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.