ACE5122C

1.5A Linear Regulator

Description

ACE5122C series are a group of positive voltage output, high precise, and low power consumption voltage regulator. Voltages are selectable in 100mV steps within a range of 1.2V to 5.0V. It also can be customized on command.

ACE5122C 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%.

ACE5122C series are available in SOT-223 package, which are lead (Pb)- free.

Features

- Low quiescent current: 100uA (Typ.)
- Low dropout voltage: 50mV@I_{OUT}=0.1A, V_{OUT}=3.3V (Typ.) 600mV@I_{OUT}=1.5A, V_{OUT}=3.3V(Typ.)
- High PSRR: 65dB@1KHz (Typ.)
- Low temperature coefficient: ±100ppm/℃
- Output voltage range: 1.2V~5.0V
- Highly accurate: ±2%
- Thermal shutdown
- Overcurrent protection

Applications

- Reference Voltage Source
- Battery Powered Equipment
- PC Peripherals
- Wireless Devices
- Instrumentation

Absolute Maximum Ratings

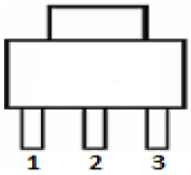
Parameter		Value
Max Input voltage		6V
Operating Junction Temperature (T_J)		125℃
Max Output current		1.5A
Package Thermal Resistance (Θ_{JC})	SOT-223	20℃/W
Storage temperature (T_S)		- 65 to 150℃
Lead Temperature & Time		260℃,10 Sec
ESD (HBM)		>2000V

Recommended work conditions

Parameter	Value
Input Voltage Range	Max. 6V
Ambient Temperature	-40 ~ 85°C
Operating Junction Temperature (T_J)	125℃

Packaging Type

SOT-223



Ordering information

ACE5122C XX XXX + H

- Halogen – free
- Pb - free
- XMA: SOT-223(A)
  XMB: SOT-223(B)
- Output Voltage : Ex：1.2V=12……5.0V=50

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.

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