



ACE5293C

1A Ultra-Low Vin Low Dropout Voltage Linear Regulator

Description

ACE5293C 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.

ACE5293C 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 $\pm 2\%$.

ACE5293C series are available in SOT23-5 package, which is lead (Pb)- free.

Features

- Low Quiescent Current: 100uA at 5V
- High PSRR: 65dB range to 1KHz
- Low Output Noise: 45uVRMS
- Low Dropout: 200mV @ Iout=0.8A, Vout=3.3V
- Maximum output current: 1A
- Highly Accurate: $\pm 2\%$
- Low ESR Ceramic Capacitor Compatible

Application

- Reference voltage source
- Battery powered equipment
- PC peripherals
- Wireless devices
- Instrumentation

Absolute Maximum Ratings

Parameter	Value
Max input voltage	8V
Max operating junction temperature (T _J)	145°C
Ambient Temperature (T _A)	-40°C ~ 85°C
Power dissipation	250mW
Storage temperature (T _S)	-40°C ~ 150°C
Lead temperature & time	260°C, 10 Sec



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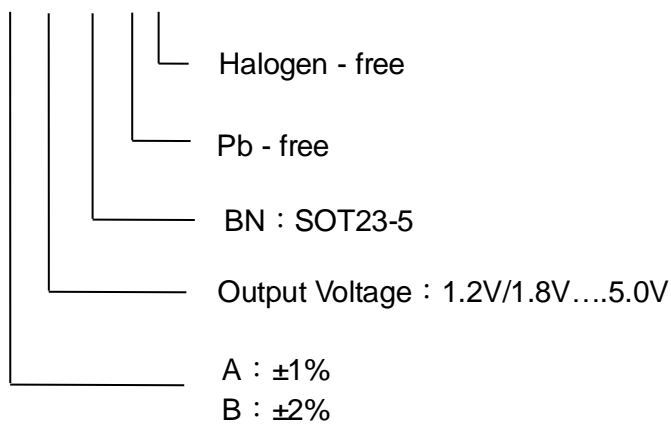
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Recommended Work Conditions

Parameter	Value
Input voltage range	Max. 6V
Ambient temperature	-40°C ~85°C
Operating junction temperature (T _J)	125°C

Ordering information

ACE5293C X XX 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.

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