



ACE1084

5A Bipolar Linear Regulator

Description

ACE1084 is a series of low dropout three terminal regulators with a typical dropout voltage of 1.4V at 5A load current.

Other than fixed voltage versions (1.8V, 2.5V, 3.3V, 5.0V), ACE1084 has an adjustable voltage version, with which desired voltage can be achieved by setting the values of two external resistors of the application circuitry.

ACE1084 offers thermal shut down and current limit functions to assure the stability of chip and power system.

ACE1084 series is available in standard packages of TO-263-2L, TO-263-3L, TO-220 and TO-252.

Features

- Fixed and adjustable versions.
- Maximum output current: 5A
- Maximum input voltage: 15V
- Line regulation: 0.2% (Typical)
- Load regulation: 0.2% (Typical)
- On-Chip Thermal Shutdown
- Operation environment Temperature: -25 ~85 °C

Application

- Power Management for Computer Mother Board, Graphic Card
- Battery Charger
- Post Regulators for Switching Supplies
- Microprocessor Supply

Absolute Maximum Ratings

| Parameter | | Value |
|-------------------------------------|--------|--------------|
| Max Input Voltage | | 15V |
| Operating Junction Temperature (Tj) | | 150 °C |
| Ambient Temperature | | -25°C-85 °C |
| Package Thermal Resistance | TO-252 | 6 °C/W |
| | TO-263 | 3 °C/W |
| | TO-220 | 3 °C/W |
| Storage temperature(Ts) | | -40°C-150 °C |
| Lead Temperature & Time | | 260 °C,10S |

Note: Exceed these limits to damage to the device. Exposure to absolute maximum rating conditions may affect device reliability.

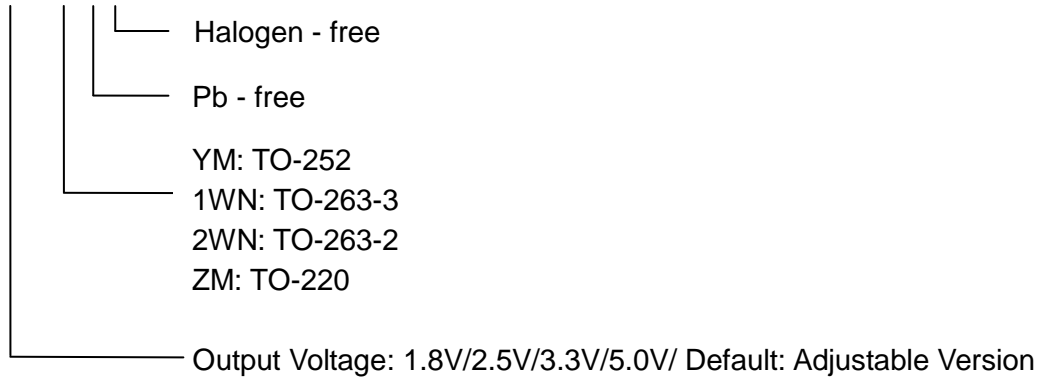


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Ordering information

ACE1084 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 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 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.