



ACE5DC6Z

Dual Channel, Low Noise, 300mA LDO

Description

ACE5DC6Z is a dual channel, low-dropout (LDO) low-power linear voltage regulator that features high power-supply rejection ratio (PSRR), ultralow-noise, fast start-up, and excellent line and load transient responses. Its PSRR can be as high as 60dB with quiescent current is about 35uA for each channel. Each individual LDO channel has its own enable pin and output voltage target, resulting in greatly reduced power consumption and enhanced PCB design flexibility. It also has other features include current limit and thermal shutdown protection. ACE5DC6Z is available in SOT-23-6.

Features

- High PSRR, 60dB
- 300mA Output Current
- 0.24V Dropout Voltage for 200mA at $V_{OUT}=3.3V$
- 35uA I_Q for each channel
- Excellent Load and Line Transient Response
- Stable with a Wide Range of Ceramic Capacitor

Applications

- DSP Power Supply
- Security Camera
- Portable/Battery Powered Equipment

Absolute Maximum Ratings

Parameter		Value
VIN, EN, VOUT Voltage		-0.3V to 6V
Operating Temperature Range		-40°C to 85°C
Storage Temperature Range		-55°C to 150°C
Thermal Resistance	θ_{JA}	180°C/W
	θ_{JC}	90°C/W
Lead Temperature (Soldering 10sec)		260°C
ESD HBM (Human Body Mode)		2KV
ESD CDM (Charged Device Mode)		1KV

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

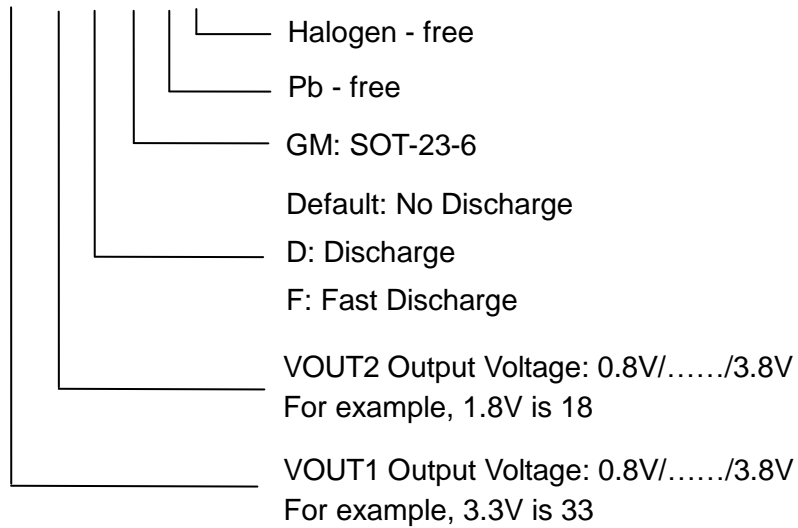


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Ordering Information

ACE5DC6Z XX XX X 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.

ACE Technology Co., LTD.
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