

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2129****Description**

The AP2129 is a 300mA, positive Voltage regulator ICs fabricated by CMOS process. The AP2129 provides two kinds of output voltage operation modes for setting the output voltage. Fixed output voltage mode senses the output voltage on V_{OUT} , adjustable output voltage mode needs two resistors as a voltage divider.

The AP2129 Series have features of low dropout voltage, low noise, high output voltage accuracy, and low current consumption which make them ideal for use in various battery-powered devices.

AP2129 has 1.0V, 1.2V, 3.3V fixed voltage version and 0.8V to 4.5V adjustable voltage version.

AP2129 series are available in SOT-23-5 Package.

Parametric Table

Input Voltage Range (V)	1.8 to 6	
Output Current (Min) (mA)	300	
Quiescent Current (μ A)	40	
PSRR (dB)	f=1kHz	65
	f=10kHz	45
Accuracy (%)	± 2	
Load Regulation (Max) (%/A)	0.6	
Line Regulation (Max) (%/V)	0.06	
On/Off Pin	Yes	
Error Flag	No	
Operating Junction Temperature (Min) ($^{\circ}$ C)	-40	
Operating Junction Temperature (Max) ($^{\circ}$ C)	85	

Features

- Wide Operating Voltage: 1.8V to 6V
- High Output Voltage Accuracy: $\pm 2\%$
- High Ripple Rejection:
65dB@ f=1kHz, 45dB@ f=10kHz
- Low Standby Current: 0.1 μ A
- Low Quiescent Current: 60 μ A Typical
- Low Output Noise: 60 μ Vrms
- Short Current Limit: 50mA
- Over Temperature Protection
- Compatible with Low ESR Ceramic Capacitor: 1 μ F for C_{IN} and C_{OUT}
- Excellent Line/Load Regulation
- Soft Start Time: 50 μ s
- Auto Discharge Resistance: $R_{DS(ON)}=60\Omega$

Benefits

- Equivalent Characteristics to the Products from Worldwide First-class Vendors
- Very Competitive Price

Additional Available Materials

- Samples
- Data Sheet
- Reliability Report
- ESD Report

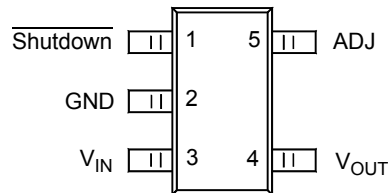
Applications

- Datacom
- Notebook Computers
- Mother Board



Pin Configuration

K Package
(SOT-23-5)



Ordering Information Example

Product	Package	Temperature Range	Part Number	Marking ID	Packing Type
AP2129	SOT-23-5	-40 to 85°C	AP2129K- ADJTRG1	GEJ	Tape & Reel
			AP2129K-1.0TRG1	GEK	Tape & Reel
			AP2129K-1.2TRG1	GEL	Tape & Reel
			AP2129K-3.3TRG1	GEM	Tape & Reel

Detailed information please refer to the relevant datasheet.

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