

**300mA HIGH SPEED, EXTREMELY LOW NOISE CMOS LDO REGULATOR****AP2127****Description**

The AP2127 Series are positive Voltage regulator ICs fabricated by CMOS process.

The AP2127 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.

AP2127 has 1.0V and 1.2V fixed voltage version.

Features

- Wide Operating Voltage: 2.5V 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 Ω

Additional Available Materials

- Samples
- Preliminary Datasheet
- Reliability Report
- ESD Report

Parametric Table

Input Voltage Range (V)	2.5 to 6	
Output Current (Min) (mA)	300	
Quiescent Current (μ A)	60	
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) (°C)	-40	
Operating Junction Temperature (Max) (°C)	85	

Benefits

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

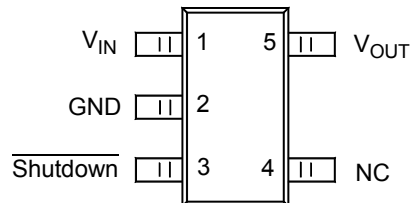
Applications

- Datacom
- Notebook Computers
- Mother Board



Pin Configuration

K Package
(SOT-23-5)



Ordering Information Example

Package	Temperature Range	Part Number	Marking ID	Packing Type
SOT-23-5	-40 to 85°C	AP2127K-1.0TRG1	GEG	Tape & Reel
		AP2127K-1.2TRG1	GEI	

Detailed information please refer to the relevant datasheet.

Sales Office:

Shanghai

No. 1600, Zi Xing Road, Shanghai ZiZhu Science-based Industrial Park, 200241, China
Tel : 86-21-24162266
Fax : 86-21-24162277

Taiwan

4F, 298-1 Rui Guang Road, Nei-Hu District, Taipei, Taiwan
Tel : 886-2-2656-2808
Fax : 886-2-2656-2806

USA

30920 Huntwood Ave. Hayward, CA 94544, USA
Tel : +1-510-324-2988
Fax : +1-510-324-2788

Shenzhen

Room E, 5F, Noble Center, No.1006, 3rd Fuzhong Road, Futian District, Shenzhen 518026, China
Tel : 86-755-8826 7951
Fax : 86-755-8826 7865