



**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 $\mu$ A
- Low Quiescent Current: 60 $\mu$ A Typical
- Low Output Noise: 60 $\mu$ Vrms
- Short Current Limit: 50mA
- Over Temperature Protection
- Compatible with Low ESR Ceramic Capacitor: 1 $\mu$ F for C<sub>IN</sub> and C<sub>OUT</sub>
- Excellent Line/Load Regulation
- Soft Start Time: 50 $\mu$ s
- Auto Discharge Resistance: R<sub>DS(ON)</sub>=60 $\Omega$

**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 ( $\mu$ A)	60	
PSRR (dB)	f=1kHz	65
	f=10kHz	45
Accuracy (%)	$\pm 2$	
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	

**Benefits**

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

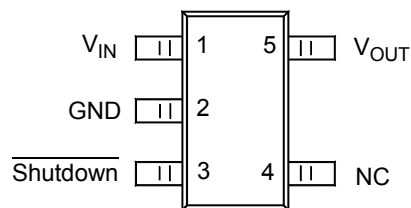
**Applications**

- Datacom
- Notebook Computers
- Mother Board

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

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