



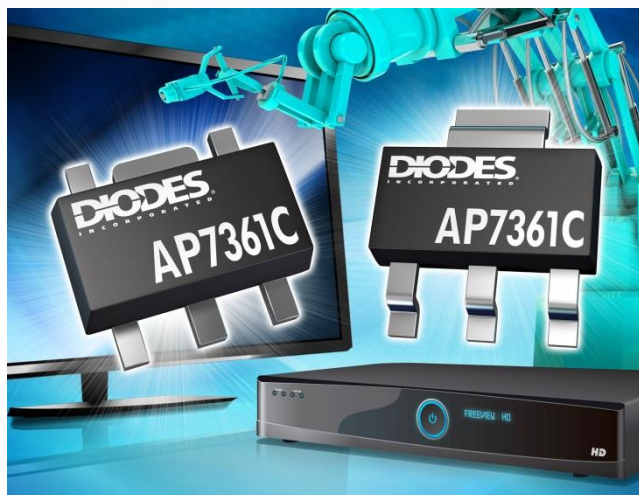
1A Low Dropout Adjustable and Fixed Mode Regulator with Enable

The AP7361C is a 1A, adjustable and fixed output voltage, ultra-low dropout linear regulator with enable. The device includes pass element, error amplifier, band-gap reference, current limit and thermal shutdown circuitry. The device is turned on when EN pin is set to logic high level.

The characteristics of the low dropout voltage and low quiescent current make it suitable for low to medium power applications, for example: laptops, audio/video applications and battery powered devices.

The typical quiescent current is approximately 60µA. Built-in current-limit and thermal-shutdown functions prevent IC from damage in fault conditions.

The AP7361C is available in U-DFN3030-8, SOT89-5, SOT223, TO252 and SO-8EP packages.



The Diodes Advantage

- **Wide Input Voltage: 2.2V to 6V**
Support operating condition of input voltage down to 2.2V
- **Variety of Voltage Output Version**
Adj, 1.0, 1.2, 1.5, 1.8, 2.5, 3.0 voltage output versions meet the application requirements
- **High PSRR (75dB @ 1kHz)**
Suitable for applications such as audio, video and RF sub-systems
- **1.0% Output Accuracy at Room Temperature, 1.5% over -40 to +85°C**
Maintains accuracy over all conditions
- **Common Packages: U-DFN3030-8, SOT89-5, SOT223, TO252 and SO-8EP**
The package dimensions and thin height meets footprint and low profile requirements of the applications
- **Low Quiescent Current at 60µA**
Offers power saving in power operated products

Circuit Functions

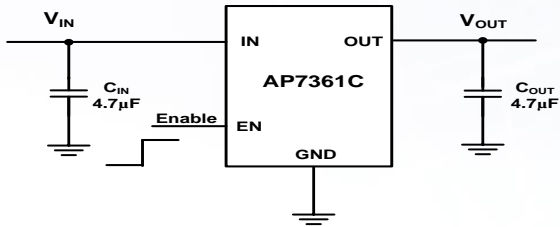
- Enable for shutdown
- Fold-back short circuit protection

Applications

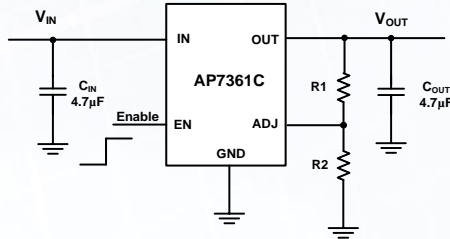
- LCD-TV, Monitor
- Laptops
- Set-Top-Box
- Industrial Point of Load
- Home electrical appliances



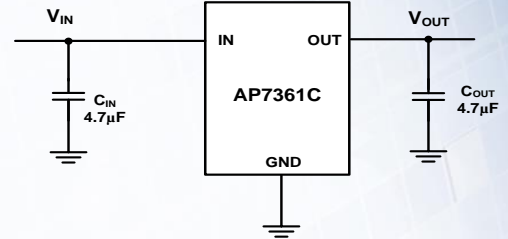
Typical Application Circuit



Fixed Version with EN

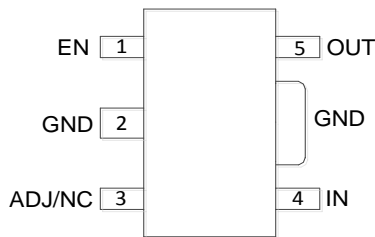


Adjustable Output

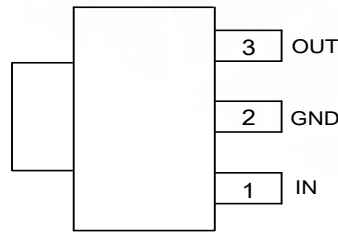


Fixed Version without EN

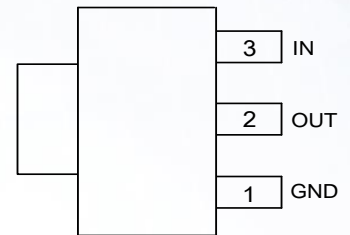
Packages and Pin Outs



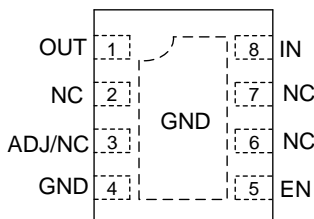
SOT89-5



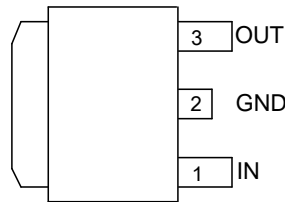
SOT223



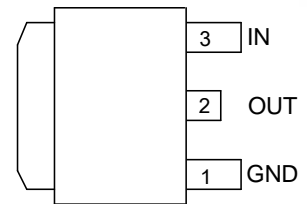
SOT223R



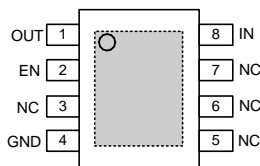
U-DFN3030-8



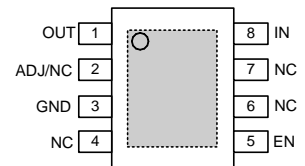
TO252



TO252R



SO-8EP



SO-8EPR

New Product Announcement

AP7361C



Product Portfolio

Part Number	V _{IN} (V)	V _{OUT1} (V)	I _{OUT} (mA)	V _{DROP} @ Full Load (mV)	I _Q (µA)	PSRR @1kHz (dB)	Output Accuracy (%)	Enable	BYPASS Cap	Package
AP7361C	2.2 to 6	ADJ,1.0,1.2,1.5,1.8,2.5,2.8,3.3	1,000	360	60	75	1	Yes	No	SOT89-5 SOT223/R TO252/R SO-8EP/R U-DFN3030-8
AP7361	2.2 to 6	Adj,1.0,1.2,1.5,1.8,2.5,2.8,3.3	1,000	500	70	65	1	Yes	No	SOT89-5 SOT223/R TO252/R SO-8EP U-DFN3030-8
AP2114	2.5 to 6	ADJ,1.2,1.5,1.8,2.5,3.3	1,000	450	60	65	1.5	Yes	No	SOT89-5 SOT223/R TO252/R SO-8EP

