



New Product Announcement

AP7381

Wide Input Voltage Range Micro-Power 150mA LDO

The AP7381 is a series of positive voltage regulators. It features a wide input voltage range, high-accuracy, low dropout voltage, current limit and ultra-low quiescent current which make it ideal for use in various USB and portable devices.

The AP7381 consists of a voltage reference, an error amplifier, a resistor network for setting output voltage, a current limit function.

AP7381 has 3.3V & 5V fixed voltage versions. It is available in the space-saving SOT89 and TO92 (Ammo Packing) packages.



The Diodes Advantage

AP7381 maximizes system run times with its extremely low quiescent current.

- **Wide Input Voltage: 3.3V to 40V**
Covers 5V, 9V, 12V and 24V power rails
- **Wide Output Voltage: 3.3V & 5V**
Covers standard I/O voltage levels
- **Low Quiescent Current at 2.5µA**
Extends battery life of battery operated products
Minimizes standby power in low-power systems
- **Two Package Variants - SOT89 and TO92**
Matches industry standard footprints
- **2.0% Output Accuracy at Room Temperature**
Maintains accuracy under all conditions
- **Built-in Over-temperature protection (OTP) Function**
Protects system from over-temperature conditions

Application

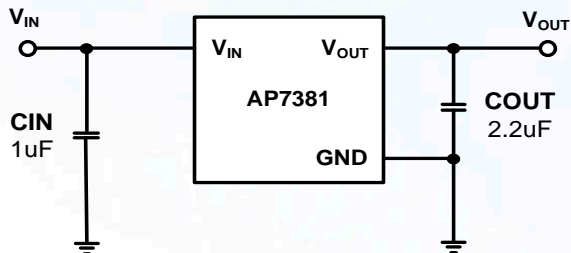
- Battery-powered Equipment
- Home Automation
- Climate Control
- Notebook Computers
- Lighting
- Meters



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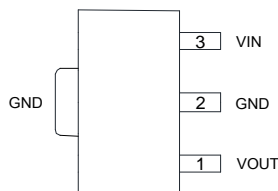
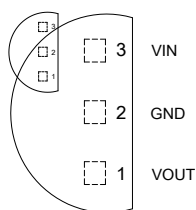
AP7381

Typical Application Circuit



Product Portfolio

Part Number	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (mA)	V _{DROP} @ Full Load (mV)	I _Q (μA)	Output Accuracy (%)	Enable	BYPASS Cap	Package
AP7381-XXY-13	3.3 to 40	3.3, 5.0	150	1000	2.5	2	No	No	SOT89
AP7381-XXV-A	3.3 to 40		150	1000	2.5	2	No	No	TO92



To find out more information:

Single Channel LDO web table:
Datasheet:

<https://www.diodes.com/products/power-management/low-dropout-regulators/single-ldos/>
<http://www.diodes.com/files/datasheets/AP7380.pdf>

Ordering Information

