

New Product Announcement

AP7380

Wide Input Voltage Range Micro-Power 150mA LDO extends operating life

The AP7380 is an ultralow quiescent current (Micro-Power) wide input voltage range (up to 24Vin) low dropout regulator. This, combined with its high accuracy (1% tolerance) make it ideal for use in various USB Power, portable devices and industrial applications.

The AP7380 is available in 3.0V, 3.3V, 4.15V, 4.4V and 5.0V fixed output voltage versions. All are available in SOT25 (with and without enable) and SOT89 (without enable) packages in green molding and are RoHS compliant.



The Diodes Advantage

The AP7380 maximizes system run times with its extremely low quiescent current

- Wide Input Voltage: 3.5V to 24V
 Covers 5V, 9V and 12V power rails with good transient withstand
- Wide fixed Output Voltage variants: 3.0V, 3.3V, 4.15V, 4.4V and 5.0V
 Covers standard I/O voltage levels
- Low Quiescent Current at 1.8μA
 Extends battery life battery operated products
 Minimizes standby power in low-power systems
- Two pin-outs in SOT25
 Matches industry standard footprints
 Enable function on one extends battery life even further
- 1% Output Accuracy at Room Temperature Maintains accuracy under all conditions
- Built-in Over-temperature protection (OTP) Function
 Protects system from over-temperature conditions

Application

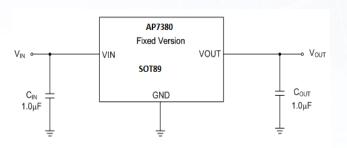
- Battery-Powered Equipment
- Portable Instrumentation
- Ruggedized PC/Tablets
- Notebook Computers
- Home Appliances
- eMeters

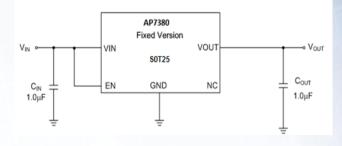


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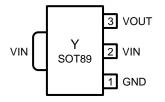
Typical Application Circuit

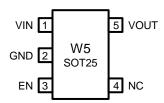


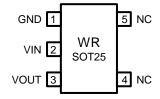


Product Portfolio

Part Number	V _{IN} (V)	V _{out} (V)	I _{OUT} (mA)	V _{DROP} @ Full Load (mV)	Ι _Q (μΑ)	Output Accuracy (%)	Enable	BYPASS Cap	Package
AP7380-XXY-13	3.5 to 24	3.0, 3.3, 4.15, 4.4, 5.0	150	1,100	1.8	1	No	No	SOT89
AP7380-XXW5-7	3.5 to 24		150	1,100	1.8	1	Yes	No	SOT25
AP7380-XXWR-7	3.5 to 24		150	1,100	1.8	1	No	No	SOT25







Single Channel LDO web table: Datasheet:

https://www.diodes.com/products/power-management/low-dropout-regulators/single-ldos/https://www.diodes.com/assets/Datasheets/AP7380.pdf

Ordering Information

