

Wide-Input Voltage Range, High PSRR, 200mA LDO Regulator for Noise-Sensitive Industrial Applications

The AP2205 is a low-quiescent current voltage regulator with a maximum input voltage of 24V.

The device features high accuracy, high-ripple rejection, low-dropout voltage, low noise, and a chip-enabled circuit, which disables the output and places the device into a low-power shutdown mode for extended battery life.

Protection features include current limit for overcurrent protection, overtemperature protection, and reverse-battery protection.

The AP2205 has 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, and 5.0V fixed-output voltage versions in SOT89 and SOT25 with an adjustable voltage version in SOT25.



The Diodes Advantage

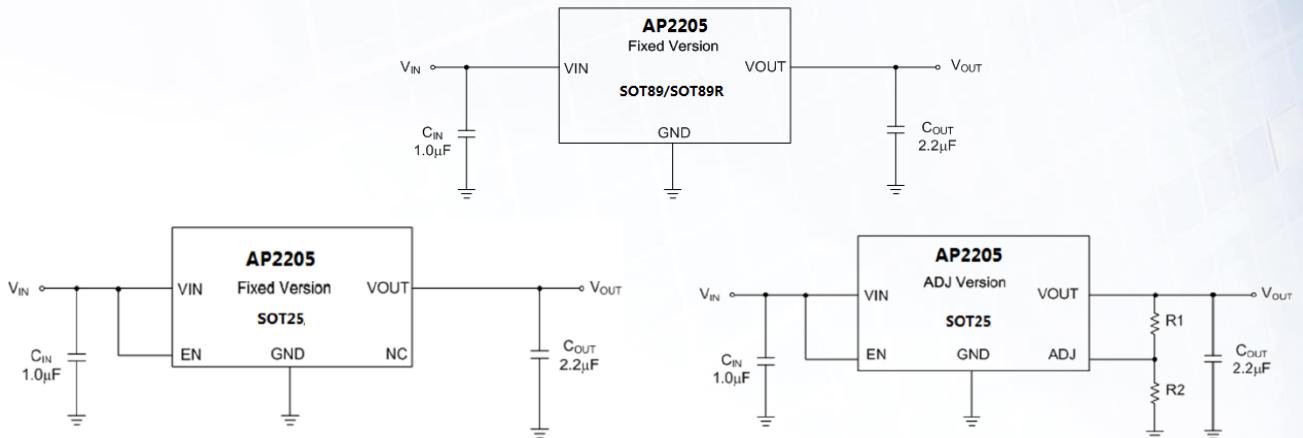
The AP2205 maximizes system run times with its extremely low quiescent current.

- **Wide-Input Voltage: 2.3V to 24V**
Covers 5V, 9V, and 12V power rails with good transient withstand
- **Wide-Output Voltage: ADJ 1.24V to 22; Fixed 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 5.0V**
Covers standard I/O voltage levels
- **Low Quiescent Current at 36 μ A**
Minimizes standby power in low-power systems
- **High PSRR up to 60dB, Noise Level is 30 μ Vrms**
Suitable for noise-sensitive industrial applications
- **Overcurrent, Reversed-Battery Protection and Built-In Overtemperature Protection (OTP)**
Improves system reliability and makes system more robust

Applications

- Industrial
- Appliances
- Laptop, Tablet, Notebook Computers
- Multi-Cell Battery-Powered Equipment

Typical Application Circuit



Product Portfolio

Part Number	V _{IN} (V)	V _{OUT} (V)	I _{OUT} (mA)	V _{DROP} @ Full Load (mV)	I _Q (µA)	PSRR (dB)	Output Accuracy (%)	Enable	Package
AP2205-XXY-13	2.3 to 24.0	1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 5.0V Fixed	200	360	36	60	2	No	SOT89
AP2205-XXYR-13									SOT89*
AP2205-XXW5-7								SOT25	
AP2205-W5-7		1.24V to 22V ADJ.							

*Different Pin-out

To find out more information: <https://www.diodes.com/part/AP2205>

Ordering Information

