

New Product Announcement

AP7351D

Ultra-Low Quiescent Current LDO with Enable

The AP7351D is a low-dropout regulator with high-output voltage accuracy. The AP7351D includes a voltage reference, error amplifier, current-limit circuit, and an enable input to turn it on/off. With the integrated resistor network, fixed-output voltage versions can be delivered.

With its ultra-low typical quiescent current of 0.5µA, 60dB PSRR, and miniature package dimensions, the AP7351D is well-suited for low-power, handheld wearable devices and other battery-operated devices that require an extended time period before a new battery replacement.

The AP7351D is available in industrial standard X2-DFN1010-4 and SOT25 packages.



DIODES Advantage

The AP7351D offers ultra-low quiescent current for extended battery lifetime for wearable applications.

- Lowest Quiescent Current at 0.5µA with Standby Current 0.02µA Leads to extended battery life for applications where power must be conserved
- High PSRR (60dB @ 1kHz) and Low Noise (32µVrms @ 10Hz 100kHz) Suitable for noise-sensitive applications, such as audio, video, and RF subsystems, which require power saving in low-power and battery-operated products
- 1.0% Output Accuracy at Room Temperature, 2% over -40°C to +85°C Maintains accuracy under all conditions
- Active Output Discharge with Wide Variety of Output Voltages
 Provides 150mA for I/O and numerous core voltages with output discharge to ensure systems start-up in known state
- With OTP and Short-Current Limit Protection with Wide Variety of Output Voltages

Overtemperature protection and short-circuit current foldback provides a ruggedized solution

Application

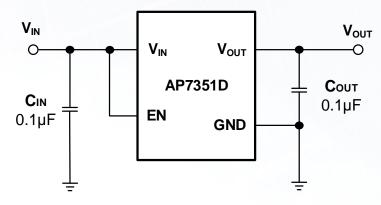
- Portable Instrumentation
- · Wearable Electronics
- Internet of Things (IoT)
- · Image Sensor



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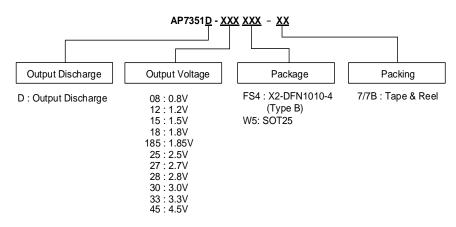
Typical Application Circuit



Product Portfolio

| Part Number | V _{IN} (V) | V _{оит} (V) | I _{оит} (mA) | V _{DROP} @ Full Load (mV) | Ι _Q (μΑ) | Output Accuracy (%) | Enable | Package |
|-------------------|---------------------|-------------------------|--------------------------|--|------------------------|---------------------------|--------|--------------------------|
| AP7351D-XXXFS4-7B | 1.4 to 5.5 | 0.8 to 4.5 | 150 | 0.14V | 0.5 | 1 | Yes | X2-DFN1010-4 (Type B) |
| AP7351D-XXXW5-7 | 1.4 to 5.5 | 0.8 to 4.5 | 150 | 0.14V | 0.5 | 1 | Yes | SOT25 |

Ordering Information



To find out more information:

https://www.diodes.com/part/AP7351D