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New VSOP383.. and VSOP584.. Signal Conditioning ICs

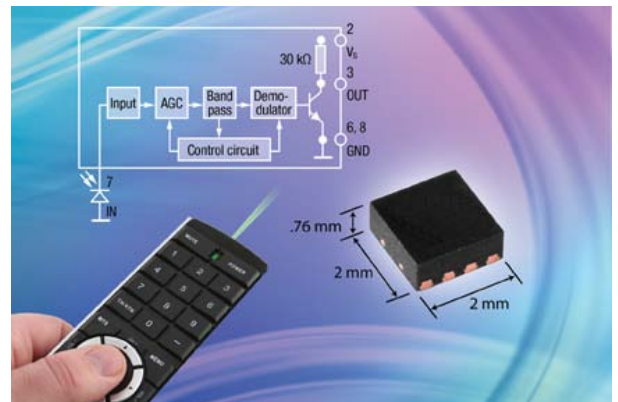
The News:

Vishay Intertechnology Introduces Industry's First Signal Conditioning ICs Designed to Process IR Remote Control Signals From Discrete Photodiodes

Vishay Intertechnology, Inc. (NYSE: VSH) announces the industry's first signal conditioning ICs suitable for processing IR remote control signals from discrete photodiodes. Offered in small QFN packages measuring 2 mm by 2 mm by 0.76 mm, the VSOP383.. and VSOP584.. families are capable of processing continuous data transmission and feature a wide supply voltage range and low supply current.

Product Benefits:

- QFN packages measure only 2 mm by 2 mm by 0.76 mm
- Manufactured using CMOS technology
- Feature a narrow band-pass filter for 36 kHz and 38 kHz carrier frequencies
- Offer an intelligent automatic gain control (AGC) to suppress disturbances from fluorescent lamps and other disturbing light sources
- Insensitive to supply voltage ripple and noise
- Wide supply voltage range of 2.7 V to 5.5 V
- Low supply current down to 0.35 mA
- RoHS compliant



The Key Specifications:

- 36 kHz and 38 kHz carrier frequencies
- 2.7 V to 5.5 V supply voltage range
- Supply current:
 - 0.35 mA (VSOP383..)
 - 0.85 mA (VSOP584..)
- Temperature range of - 25 °C to + 85 °C



Market Applications:

- Applications such as systems where ultra-wide spatial reception is required through multiple photodiodes aimed in different directions; where unique photodiode packages are required; or where alternative wavelengths need to be received, such as blue light in under-water applications or visible light communication

The Perspective:

Vishay's new VSOP383.. and VSOP584.. are the industry's first signal conditioning ICs suitable for processing IR remote control signals from discrete photodiodes. While Vishay's standard IR remote control receivers include both the photodiode and signal conditioning IC in a single package, the VSOP383.. and VSOP584.. separate the signal processing circuit from the photodiode, providing far greater flexibility for a number of applications, such as those requiring ultra-wide spatial reception, unique photodiode packages, or alternative wavelengths. Manufactured using CMOS technology, the VSOP383.. and VSOP584.. feature a narrow band-pass filter for 36 kHz and 38 kHz carrier frequencies and an intelligent automatic gain control (AGC) to suppress disturbances from fluorescent lamps and other disturbing light sources. The devices are insensitive to supply voltage ripple and noise, and offer a wide supply voltage range and low supply current.

Availability: Samples and production quantities of the VSOP383.. and VSOP584.. are available now

Useful Links:

To access the product datasheets on the Vishay Web site, go to

<http://www.vishay.com/doc?82443> (VSOP383..)

<http://www.vishay.com/doc?82444> (VSOP584..)

Webinar: <http://www.vishay.com/videos/optoelectronics/signal-conditioning-ics>

IR Receivers webpage: <http://www.vishay.com/ir-receiver-modules/>

Full Optoelectronics portfolio: <http://www.vishay.com/optoelectronics/>

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