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Semtech GN1035

GN1035 2.5Gb/s Transimpedance Amplifier with Automatic Gain Control

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Overview

Gennum's GN1035 is a fully integrated, silicon germanium transimpedance amplifier; providing wideband, low noise pre-amplification of signal current from a photodetector.

It features differential outputs, and incorporates an automatic gain control mechanism to increase dynamic range, allowing input signals up to 2.6 mA peak. A decoupling capacitor on the supply is the only external circuitry required.

Features

Single +3.3V power supply

Power dissipation 125mW (typ)

Input noise current = 250nA rms when used with a 0.5pF detector

Transimpedance gain 10k? into 100? load (differential)

Bandwidth (-3dB) = 2.0GHz

No photodiode bypass capacitor required in PIN-based applications.

 RSSI (received signal strength indicator) current output operates from sensitivity to overload, selectable source or sink

Bondpad configuration, and output polarity control, allow for maximum flexibility in pin-out in a TO Can ROSA

On-chip filter to improve sensitivity and control bandwidth

Applications

GPON ONU/ONT Gigabit Ethernet 2x Fibre Channel PCI Express SONET/SDH Infiniband

Order Codes

Type GN1035CWA-CHIP Package Bare Die

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