



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Product Information

Linear Optical Array

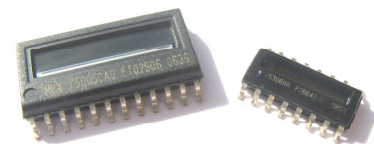
MLX90255BA

The MLX90255BA linear sensor array consists of a 128x1 array of photodiodes, associated charge amplifier circuitry and a pixel data-hold function that provides simultaneous-integration start and stop times for all pixels. Operation is simplified by internal control logic that requires only a serial-input (SI) signal and a clock.

Light energy falling on a photodiode generates photocurrent, which is integrated by the active integration circuitry associated with that pixel. The amount of charge accumulated at each pixel is directly proportional to the light intensity and the integration time. The output and reset of the integrators is controlled by a 132-bit shift register and reset logic. An output cycle is initiated by clocking in a logic 1 on SI.

Features

- 128 x 1 Sensor-Element Organization (1 Not Connected, 1 dummy, 128 real, 1 dummy and 1 Dark Pixel)
- 385 Dots-Per-Inch (DPI) Sensor Pitch
- High Linearity and Uniformity for 256 Gray-Scale (8-Bit) Applications
- High Sensitivity:
2.0V @ 10 μ W/cm² @ 0.7ms integration time for open cavity devices
1.7V @ 10 μ W/cm² @ 0.7ms integration time for glass lid devices
- Special Gain Compensation for use with single LED light source
- Output Referenced to Ground
- Low Image Lag
- Single 5V Supply
- Replacement for Texas Instruments TSL1301 & TSL1401 and MLX90255AA
- Operation to 1MHz
- Available in automotive cavity packages SOIC24 and GLP5



Bus ICs

BLDC Motor
Control ICs

Pressure Sensors

Wireless ICs

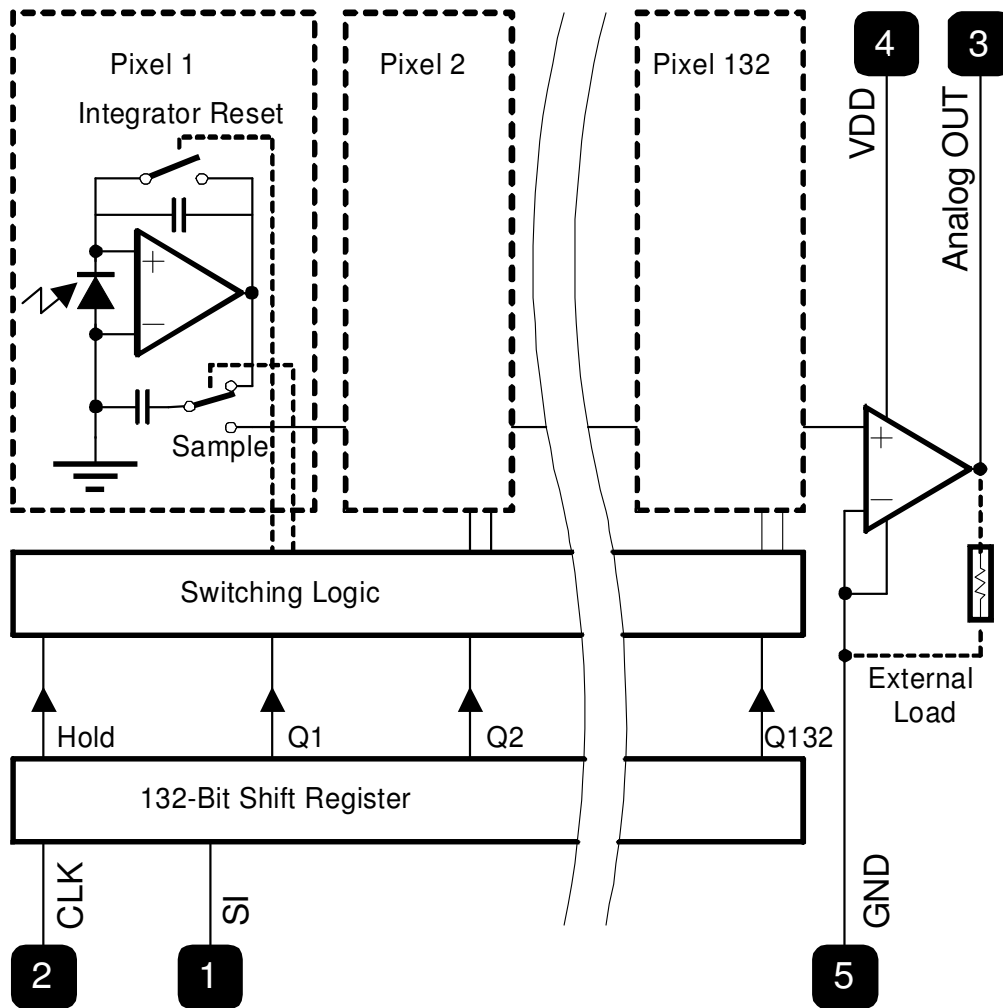
Hall Effect ICs
And Sensors

Optoelectronic
Sensors

Sensor Interface ICs

Infrared Sensors

Block Diagram



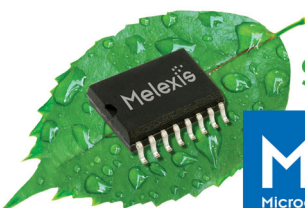
Applications

- Position Sensing
- Spectrometer Applications
- Optical High Resolution Position Sensing (8 to 14 bit)
- High Resolution Steering Systems: Position and Angle
- Electrical Power Assisted Steering
- Spectrometer Analysis

For additional information email info@melexis.com
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Sensor Interface ICs

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