



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 Overview

AR0239: CMOS Image Sensor, 2.3 MP, 1/2.7"

For complete documentation, see the data sheet.

The AR0239 from ON Semiconductor is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1936 (H) × 1188 (V). It captures images in either linear or high dynamic range modes, with rolling-shutter readout. It includes sophisticated camera functions such as in-pixel binning, windowing and both video and single frame modes. It is designed for both low light and high dynamic range scene performance. It is programmable through a simple two-wire serial interface. The AR0239 produces extraordinarily clear, sharp digital pictures, and its ability to capture both continuous video and single frames makes it the perfect choice for a wide range of applications, including surveillance and HD video.

Features

- 2.3Mp at 90 fps for Excellent Video Performance
- Small Optical Format (1/2.7-inch)
- 1080p Mode for 16:9 Video
- Superior Low-light Performance
- 3.0um large Back Side Illuminated Pixel Technology
- Supports Line Interleaved T1/T2/T3 Readout to Enable HDR Processing in ISP Chip at 1080P and 30fps
- On-chip Phase-locked Loop (PLL) Oscillator
- Integrated Color and Lens Shading Correction
- Slave Mode for Precise Frame-rate Control
- Data Interfaces: - HiSPi (SLVS) - 4 Lanes - MIPI CSI-2 - 4 Lanes - Parallel

For more features, see the data sheet

Applications

- Video Surveillance
- High Dynamic Range Imaging

End Products

- Security Camera
- Action camera
- Car DVR
- Body camera

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0239SRSC00SUEA 0-DP	Pb-free Halide free	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63
AR0239SRSC00SUEA 0-DPBR	Pb-free Halide free	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63
AR0239SRSC00SUEA 0-DR	Pb-free Halide free	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63
AR0239SRSC00SUEA 0-DRBR	Pb-free Halide free	Active	CMOS	2.3	90	1/2.7 inch	Rolling	3.0 x 3.0	Multi	Bayer Color	IBGA-63

For more information please contact your local sales support at www.onsemi.com.

Created on: 8/20/2018