

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 | Pricing (\$/Unit) | Compliance | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type | Pixel Size (µm) | Output Interface | Color | Package Type |
|------------------------|-------------------|--|--------|------|------------|------------------|----------------|--------------|-----------------|------------------|-------------|--------------|
| AR0239SRSC00SUEA0-DP | | Pb-free Halide free non AEC-Q and PPAP | Active | CMOS | 2.3 | 90 | 1/2.7 inch | Rolling | 3.0 x 3.0 | Multi | Bayer Color | IBGA-63 |
| AR0239SRSC00SUEA0-DPBR | | Pb-free Halide free non AEC-Q and PPAP | Active | CMOS | 2.3 | 90 | 1/2.7 inch | Rolling | 3.0 x 3.0 | Multi | Bayer Color | IBGA-63 |
| AR0239SRSC00SUEA0-DR | | Pb-free Halide free non AEC-Q and PPAP | 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.

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