



Product Overview

AR0238: 1/2.7-Inch 2.1 Mp/Full HD Digital Image Sensor

For complete documentation, see the data sheet

Product Description

ON Semiconductor's AR0238 is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928Hx1088V. It captures images in either linear or high dynamic range modes, with a 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 AR0238 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

- Latest 3.0µm pixel with ON Semiconductor DR-Pix™ technology with Dual Conversion Gain
- Supports line interleaved T1/T2 readout
- Full HD support
- HiSpi or Parallel Interface

Benefits

- Superior low-light performance
- Enables HDR processing in ISP chip
- 1080P 60 fps for superior video performance
- Flexible implementation for OEM Designs

Applications

- Video recording and streaming
- 1080p60 (monitoring) video applications
- High dynamic range imaging

End Products

- Car DVR
- Wireless Cameras
- Web Cameras

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0238CSSC12SHRA0-DP	Pb-free Halide free	NEW	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	HiSpi™	RGB	PLCC-48
AR0238CSSC12SHRA0-DR	Pb-free Halide free	NEW	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	HiSpi™	RGB	PLCC-48
AR0238CSSC12SPRA0-DR	Pb-free Halide free	NEW	CMOS	2	60	1/2.7 inch	Rolling	3.0 x 3.0	Parallel	RGB	PLCC-48

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

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