# Product Overview

## AR0140AT: CMOS Image Sensor, 1.0 MP, 1/4"

For complete documentation, see the data sheet.

ON Semiconductor's AR0140AT is a 1/4-inch CMOS digital image sensor with an active-pixel array of 1280Hx800V. It captures images in either linear or high dynamic rangemodes, 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. TheAR0140AT 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.

## Features

- High Dynamic Range

## Applications

- Automotive

## Part Electrical Specifications

| Product | Compliance | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type | Pixel Size (µm) | Output Interface | Color | Package Type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AR0140AT2C00XUEA0-DPBR | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | - | RGB | IBGA-63 |
| AR0140AT3C00XUEA0-DPBR | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | - | RGB | IBGA-63 |
| AR0140AT3C00XUEA0-DPBR1 | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | Serial<br>Parallel | RGB | IBGA-63 |
| AR0140AT3C00XUEA0-DRBR | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | - | RGB | IBGA-63 |
| AR0140AT3C00XUEA0-DRBR1 | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | Serial<br>Parallel | RGB | IBGA-63 |
| AR0140AT3C00XUEA0-TPBR | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | CMOS | 1 | 60 | 1/4 inch | Electronic Rolling | 3.0 x 3.0 | Parallel<br>Serial | RGB | IBGA-63 |

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

Created on: 8/20/2018