



Product Overview

AR0140AT: 1.0 MP 1/4" CMOS Image Sensor

For complete documentation, see the [data sheet](#)

Product Description

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 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 AR0140AT 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
AR0140AT2C00XUEA 0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT2C00XUEA 0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT2C00XUEA 0-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-63
AR0140AT2C00XUEA 0-TRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT2C00XUEA 0-TRBR-E	Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT3C00XUEA 0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT3C00XUEA 0-DPBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-63
AR0140AT3C00XUEA 0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1	60	1/4 inch	Electronic Rolling	3.0 x 3.0		RGB	IBGA-63
AR0140AT3C00XUEA 0-DRBR1	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-63

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

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