

Product Overview

AR0135AT: 1/3" 1.2 MP Global Shutter CMOS Image Sensor

For complete documentation, see the data sheet.

This 1/3-inch format, 1.2 MP imaging device has been designed to address the challenging requirements of automotive in-cabin cameras. The new global shutter sensor allows the camera to "freeze" fast moving scene data, and ensures effective synchronization with pulsed light sources. The AR0135 sensor incorporates a new innovative global shutter pixel design, with 10X lower dark current and 4X higher shutter efficiency vs. previous generation products. These improvements allow the sensor to produce clear, low-noise images, in both low-light and bright scenes, and in high temperature environments. This performance enables the required eye tracking and gesture detection functionality in next generation automotive in-cabin systems.

Features

- · ON Semiconductor's Next Generation Global Shutter Technology
- · Superior Low-light Performance
- HD Video (720p60)
- · Video/Single Frame Mode
- · Flexible Row-skip Modes
- · On-chip AE and Statistics Engine
- · Parallel and Serial Output
- · Support for External LED or Flash
- · Auto Black Level Calibration
- Context Switching
 For more features, see the data sheet

Applications

- · Automotive In-Cabin / Driver Monitoring System
- 720p60 Video Applications

Part Electrical Specifications											
Product	Compliance	Status	Туре	Megapixel s	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0135AT2M00XUD2 0	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	
AR0135AT2M00XUEA 0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0135AT2M00XUEA 0-TPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	IBGA-63
AR0135AT2M00XUEA 0-TRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0135AT2M25XUEA 0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	IBGA-63
AR0135AT2M25XUEA 0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel HiSPi™	Mono	IBGA-63
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For more information please contact your local sales support at www.onsemi.com.

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