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

Request Datasheet



Product Overview

»View Material Composition

»Product Change Notification

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

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

Technical Documentation & Design Resources

Package Drawings (1)

Videos (3)

Availability & Samples Specifications

Product	Status	Compliance	Description	Package		MSL*	Container		Budgetary Price/Unit
				Type	Case Outline		Type	Qty.	
AR0135AT2M00XUD20	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 0 Degree CRA, Bare Die			NA	MTFRM	1	Contact Sales Office
AR0135AT2M00XUEA0-DPBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 0 Degree CRA, iBGA, Dry Pack with Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tray JEDEC	2600	Contact Sales Office
AR0135AT2M00XUEA0-DRBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 0 Degree CRA, iBGA, Dry Pack without Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tray JEDEC	2600	Contact Sales Office
AR0135AT2M00XUEA0-TPBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 0 Degree CRA, iBGA, Tape & Reel with Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tape and Reel	2000	Contact Sales Office
AR0135AT2M00XUEA0-TRBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 0 Degree CRA, iBGA, Tape & Reel without Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tape and Reel	2000	Contact Sales Office
AR0135AT2M25XUD20	Active	AEC Qualified PPAP Capable Pb-free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 25 Degree CRA, Bare Die			NA	MTFRM	1	Contact Sales Office

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Technical Documentation

Design Resources & Documents

Technical Support

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The Current State of Machine Vision Technology

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AR0135AT2M25XUEA0-DPBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 25 Degree CRA, iBGA, Dry Pack with Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tray JEDEC	2600	Contact Sales Office
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Moisture Sensitivity level (MSL) for surface mount devices (lead free measured at 260°C reflow, non lead free at 235°C reflow)

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