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





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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

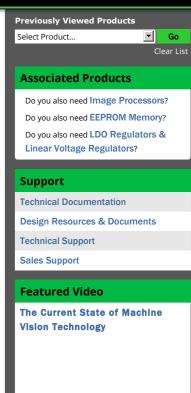
- Automotive In-Cabin / Driver Monitoring System
- 720p60 Video Applications

Technical Documentation & Design Resources

Package Drawings (1)

Videos (3)

Availability & Samples Specifications										
Product	Status	Compliance	Description	Package		MSL*	Container		Budgetary Price/Unit	
				Туре	Case Outline		Туре	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, 1/2", 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	



More Videos

		Halide free							
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
AR0135AT2M25XUEA0- DRBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 25 Degree CR, BGA, Dry Pack without Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tray JEDEC	2600	Contact Sales Office
AR0135AT2M25XUEA0- TPBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 25 Degree CRA, iBGA, Tape & Reel with Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tape and Reel	2000	Contact Sales Office Inventory
AR0135AT2M25XUEA0- TRBR	Active	AEC Qualified PPAP Capable Pb-free Halide free	CMOS Image Sensor, 1.2 MP, 1/3", Global Shutter , Mono, 25 Degree CRA, iBGA, Tape & Reel without Protective Film, Double Side BBAR Glass	IBGA-63	503AZ	3	Tape and Reel	2000	Contact Sales Office

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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