AR0135CS

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

Product Overview

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 Industrial, consumer and IoT applications. 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 3D scanner, gesture recognition devices.

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

- Barcode scanner
- 3D scanning
- Positional tracking
- Iris Scanning
- Augmented Reality

Part Electrical Specifications

Product	Status	Compilance	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Family	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
AR0135CS2C00SUD20	Obsolete		CMOS	1.2	60	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	-		NA	0	MTFRM	1
AR0135CS2C00SUEA0-DPBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2C00SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2C00SUEA0-DRBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2C00SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2C19SUD20	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	-		NA	0	MTFRM	1
AR0135CS2C19SUEA0-DPBR	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2C19SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2C19SUEA0-DRBR	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2C19SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	RGB	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2M00SUD20	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	-		NA	0	MTFRM	1
AR0135CS2M00SUEA0-DPBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2M00SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2M00SUEA0-DRBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2M00SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2M25SUD20	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	-		NA	0	MTFRM	1
AR0135CS2M25SUEA0-DPBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2M25SUEA0-DPBR1	Last Shipments		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260

AR0135CS2M25SUEA0-DRBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	2600
AR0135CS2M25SUEA0-DRBR1	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	JTRAY	260
AR0135CS2M25SUEA0-TPBR	Lifetime		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	REEL	2000
AR0135CS2M25SUEA0-TRBR	Obsolete		CMOS	1.2	-	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ Parallel	Mono	-	IBGA-63	503AZ.PDF	3	260	REEL	2000