Product Overview

AR1820HS: CMOS Image Sensor, 18 MP, 1/2.3"

For complete documentation, see the data sheet.

The AR1820HS is an 18 megapixel, 1/2.3-inch format, 1.25 um pixel sensor using ON Semiconductor’s A-PixHS™ BSI technology. With a variety of operating modes, the AR1820HS can dynamically optimize resolution, low-light and frame rate for environmental conditions. For example, the camera could run in full 18 megapixel resolution at 24 fps under high-light conditions, and switch to a 2:1 summing and 2:1 binning at 1080p 60 frames-per-second mode for superb low-light performance under darker conditions. With high resolution and frame rates, and a variety of flexible modes, the AR1820HS sensor is excellent for many applications such as surveillance, sports cameras and mobile handsets.

Applications

- Camera
- Security

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR1820HSSC00SHEA0-DP1	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC00SHEA0-DR	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DP	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DP1	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DR	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SHEA0-DR1	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	MIPI HiSPi™	RGB	IBGA-60
AR1820HSSC12SMD20	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	HiSPi™ MIPI	RGB	
AR1820HSSC31SMD20	Pb-free Halide free	Active	CMOS	18.1	24	1/2.3 inch	Electronic Rolling	1.25 x 1.25	HiSPi™ MIPI	RGB	

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

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