Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Product Overview

AR0134CS: CMOS Image Sensor, Digital, Global Shutter, 1.2 MP, 1/3"

For complete documentation, see the data sheet.

ON Semiconductor's focus on pixel performance excellence provides the foundation for this sensor's exceptional image quality with superior performance.The sensor integrates ON Semiconductor's smallest, high performance global shutter technology for high speed image capture into a 1/3-inch optical format high definition (HD) device. The 3.75-micron global shutter pixel with exceptional low light performance can stop action without the artifacts typically associated with conventional rolling shutter pixels.
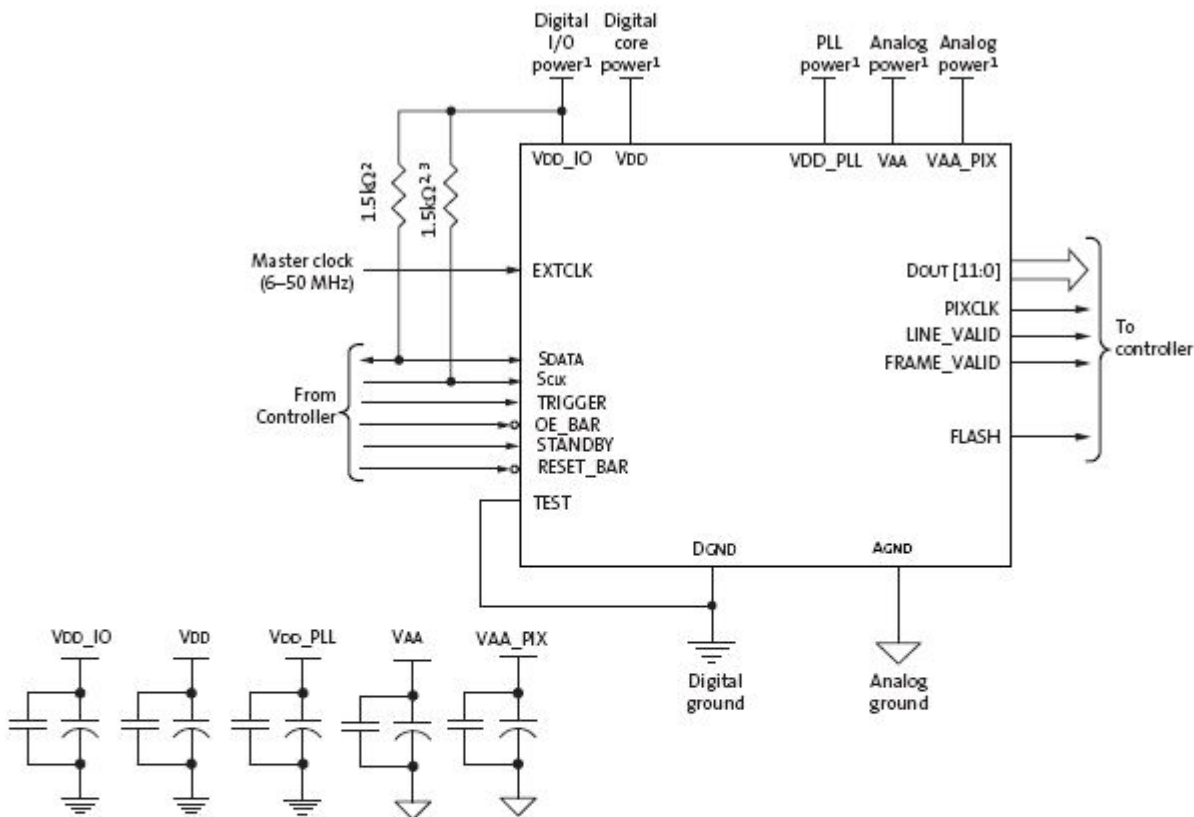
Features

- ON Semiconductor's 3rd 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

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0134CSSC00SPCA0-DPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	RGB	ILCC-48
AR0134CSSC00SPCA0-DRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	ILCC-48
AR0134CSSC00SPCA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	ILCC-48
AR0134CSSC00SPCA0-TRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	RGB	ILCC-48
AR0134CSSC00SPD20	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	
AR0134CSSC00SUEA0-DPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-DPBR1	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-DRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	RGB	IBGA-63
AR0134CSSC00SUEA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	RGB	IBGA-63
AR0134CSSC00SUEA0-TRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	RGB	IBGA-63
AR0134CSSM00SPCA0-DPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	ILCC-48
AR0134CSSM00SPCA0-DPBR1	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	ILCC-48
AR0134CSSM00SPCA0-DRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	ILCC-48
AR0134CSSM00SPCA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	ILCC-48
AR0134CSSM00SPCA0-TRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	ILCC-48
AR0134CSSM00SPD20	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™	Mono	
AR0134CSSM00SUEA0-DPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	IBGA-63
AR0134CSSM00SUEA0-DPBR1	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63
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AR0134CSSM00SUEA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63
AR0134CSSM00SUEA0-TRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63
AR0134CSSM25SPCA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	ILCC-48
AR0134CSSM25SPD20	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	
AR0134CSSM25SUEA0-DPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63
AR0134CSSM25SUEA0-DRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	IBGA-63
AR0134CSSM25SUEA0-DRBR1	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	Parallel / HiSPi™	Mono	IBGA-63
AR0134CSSM25SUEA0-TPBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63

AR0134CSSM25SUEA0-TRBR	Pb-free / Halide free	Active	CMOS	1.2	54	1/3 inch	Global Shutter	3.75 x 3.75	HiSPi™ / Parallel	Mono	IBGA-63

Application Diagram

Notes:
1. All power supplies must be adequately decoupled.
2. ON Semiconductor recommends a resistor value of 1.5kΩ, but it may be greater for slower two-wire speed.
3. This pull-up resistor is not required if the controller drives a valid logic level on SCLK at all times.
4. The serial interface output pads can be left unconnected if the parallel output interface is used.
5. ON Semiconductor recommends that 0.1μF and 10μF decoupling capacitors for each power supply are mounted as close as possible to the pad. Actual values and results may vary depending on layout and design considerations. Refer to the AR0134 demo headboard schematics for circuit recommendations.
6. ON Semiconductor recommends that analog power planes be placed in a manner such that coupling with the digital power planes is minimized.

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