



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Product Overview

AR0231AT: CMOS Image Sensor, 2.3 MP, 1/2.7"

For complete documentation, see the data sheet.



The AR0231AT is a 1/2.7-inch CMOS digital image sensor with an active-pixel array of 1928Hx1208V. It includes LED Flicker Mitigation (LFM) that eliminates high frequency LED flicker from traffic signs and vehicle LED lighting and allows Traffic Sign Reading algorithms to operate in all light conditions. The AR0231AT uses the latest 3.0 micron Back Side Illuminated (BSI) pixel with ON Semiconductor's DR-Pix™ technology, which offers dual conversion gain for improved performance under all lighting conditions. It captures images in linear, HDR or LFM modes, and offers frame-to-frame context switching between modes. The AR0231AT also includes features that support ASIL B.

Features

- High Dynamic Range
 - LED Flicker Mitigation (LFM)
 - ASIL B Support
 - Up to 4-exposure HDR at 1928 × 1208 and 30 fps or 3-exposure HDR at 1928 × 1208 and 40 fps
 - Latest 3.0 μm Back Side Illuminated (BSI) Pixel with ON Semiconductor DR-Pix Technology
 - Data Interfaces: up to 4-lane MIPI CSI-2, Parallel, or up to 4-lane High Speed Pixel Interface (HiSPi) Serial Interface (SLVS and HiVCM)
 - Advanced HDR with Flexible Exposure Ratio Control
 - Selectable Automatic or User Controlled Black Level Control
 - Frame to Frame Switching among up to 4 Contexts to Enable Multi-function Systems
 - Spread-spectrum Input Clock Support
- For more features, see the data sheet

Applications

- 1080p30 Video Applications
- Mirror Replacement
- High Dynamic Range Imaging
- ADAS + Viewing Fusion
- Automotive ADAS

End Products

- ADAS
- Automotive

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interface	Color	Package Type
AR0231AT7B00XUD20	AEC Qualified PPAP Capable Pb-free Halide free	NEW									
AR0231AT7B00XUD20-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	Parallel MIPI HiSPi™	Other	
AR0231AT7B00XUEA0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	NEW									IBGA-121
AR0231AT7B00XUEA0-DPBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	HiSPi™ Parallel MIPI	Other	IBGA-121
AR0231AT7B00XUEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	NEW									IBGA-121
AR0231AT7B00XUEA0-DRBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	HiSPi™ Parallel MIPI	Other	IBGA-121
AR0231AT7C00XUD20	AEC Qualified PPAP Capable Pb-free Halide free	Active									
AR0231AT7C00XUD20-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	MIPI HiSPi™ Parallel	Other	
AR0231AT7C00XUEA0-DPBR	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-121
AR0231AT7C00XUEA0-DPBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	HiSPi™ Parallel MIPI	Other	IBGA-121
AR0231AT7C00XUEA0-DRBR	AEC Qualified PPAP Capable Pb-free Halide free	Active									IBGA-121
AR0231AT7E00XUEA0-DRBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	MIPI HiSPi™ Parallel	Other	IBGA-121
AR0231AT7G00XPEA0-TPBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	HiSPi™ Parallel MIPI	Other	IBGA-63
AR0231AT7R00XUD20-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	HiSPi™ Parallel MIPI	Other	
AR0231AT7R00XUEA0-DPBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	Parallel MIPI HiSPi™	Other	IBGA-121

AR0231AT7R00XUEA 0-DRBR-E	Pb-free Halide free	Active	CMOS	2.3	40 fps	1/2.7 inch	Electronic Rolling	3.0 x 3.0	MIPI Parallel HiSPi™	Other	IBGA-121
AR0231ATSC00XUEA 0-DRBR-E	Pb-free Halide free	Active	CMOS	2.3	40 40 fps	1/2.7 inch	Rolling Electroni c Rolling	3.0 x 3.0	MIPI Parallel HiSPi™	Other RGB	IBGA-121

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

Created on: 8/20/2018