

产品概览

AR0231AT: 2.3 MP 1/2.7" CMOS Image Sensor

欲看完整文档，请参阅数据表。



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.

特性

- 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

应用

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

终端产品

- ADAS
- Automotive

器件电气规格

| 产品 | Compliance | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type | Pixel Size (μm) | Output Interface | Color | Package Type |
|--------------------------|-------------|--------|------|------------|------------------|----------------|--------------------|-----------------|------------------|-------|--------------|
| AR0231AT7B00XUD20-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | Parallel | Other | |
| | Halide free | | | | | | | | MIPI | | |
| | | | | | | | | | HiSPi™ | | |
| AR0231AT7B00XUEA0-DPBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | HiSPi™ | Other | IBGA-121 |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | MIPI | | |
| AR0231AT7B00XUEA0-DRBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | HiSPi™ | Other | IBGA-121 |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | MIPI | | |
| AR0231AT7C00XUD20-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | MIPI | Other | |
| | Halide free | | | | | | | | HiSPi™ | | |
| | | | | | | | | | Parallel | | |
| AR0231AT7C00XUEA0-DPBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | HiSPi™ | Other | IBGA-121 |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | MIPI | | |
| AR0231AT7E00XUEA0-DRBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | MIPI | Other | IBGA-121 |
| | Halide free | | | | | | | | HiSPi™ | | |
| | | | | | | | | | Parallel | | |
| AR0231AT7G00XPEA0-TPBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | HiSPi™ | Other | IBGA-63 |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | MIPI | | |
| AR0231AT7R00XUD20-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | HiSPi™ | Other | |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | MIPI | | |
| AR0231AT7R00XUEA0-DPBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | Parallel | Other | IBGA-121 |
| | Halide free | | | | | | | | MIPI | | |
| | | | | | | | | | HiSPi™ | | |
| AR0231AT7R00XUEA0-DRBR-E | Pb-free | Active | CMOS | 2.3 | 40 fps | | Electronic Rolling | | MIPI | Other | IBGA-121 |
| | Halide free | | | | | | | | Parallel | | |
| | | | | | | | | | HiSPi™ | | |
| AR0231ATSC00XUEA0-DRBR-E | Pb-free | Active | CMOS | 2.3 | 40 | | Rolling | 3.0 x 3.0 | MIPI | Other | IBGA-121 |
| | Halide free | | | | 40 fps | | Electronic Rolling | | Parallel | | |
| | | | | | | | | | HiSPi™ | | |

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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