onsemi

AS0140AT

CMOS Image Sensor and Signal Processor, 1 MP, 1/4-Inch

Product Overview

For complete documentation, see the data sheet.

The ON Semiconductor AS0140AT is a 1.0 MP format digital image sensor and image sensor processor for automotive viewing applications. The device includes full auto-functions support (AWB and AE) and ALTM (Adaptive Local Tone Mapping) to enhance HDR video. The AS0140AT implements a high-sensitivity 3.0 µm pixel with DR-Pix technology, and advanced noise reduction, to enable excellent low-light performance. It can be operated in interlaced (NTSC or PAL) or progressive modes, and captures images in either linear or high dynamic range modes. The AS0140AT may be operated in video (master) mode or in single frame trigger mode, providing flexibility for multi-camera systems.

Features

- 3.0 µm Pixel with ON Semiconductor DR-Pix Technology
- Superior Low-light Performance
- 45 fps at 1.0 MP, 60 fps at 720p
- Linear or High Dynamic Range Video
- Color Processing Optimized for HDR Video Operation
- Color and Gamma Correction
- Auto Exposure, Auto White Balance, 50/60 Hz Auto Flicker Detection and Avoidance
- Adaptive Local Tone Mapping (ALTM)
- Programmable Spatial Transform Engine (STE)
- Pre-rendered Graphical Overlay For more features, see the data sheet

Applications

- Surround, Rear and Front View Cameras
- Blind Spot/Side Mirror Replacement Cameras
- Automotive Viewing/Processing Fusion Cameras

Part Electrical Specifications

Product	Pricing (\$/Unit)	Complian ce	Status	Туре	Megapi xels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (µm)	Output Interfac e	Color	Packag e Type
AS0140AT2C00 XUSM0-DRBR-E		PD H	Active	CMOS	1		1/4 inch	Electron ic Rolling	3.0 x 3.0			IBGA- 130
AS0140AT2C00 XUSM0-TPBR		APPH	Active									IBGA- 130

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