

## Product Overview

### MT9M021: 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.

#### Part Electrical Specifications

| Product             | Pricing (\$/Unit) | Compliance             | Status | Type | Megapixels | Frame Rate (fps) | Optical Format | Shutter Type   | Pixel Size (µm) | Output Interface   | Color | Package Type |
|---------------------|-------------------|------------------------|--------|------|------------|------------------|----------------|----------------|-----------------|--------------------|-------|--------------|
| MT9M021IA3XTC-DPBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | HiSPi™<br>Parallel | RGB   | IBGA-63      |
| MT9M021IA3XTC-DPBR1 |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel<br>HiSPi™ | RGB   | IBGA-63      |
| MT9M021IA3XTC-DRBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | HiSPi™<br>Parallel | RGB   | IBGA-63      |
| MT9M021IA3XTM-DPBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel<br>HiSPi™ | Mono  | IBGA-63      |
| MT9M021IA3XTM-DRBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel<br>HiSPi™ | Mono  | IBGA-63      |
| MT9M021IA3XTMZ-DPBR |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel<br>HiSPi™ | Mono  | IBGA-63      |
| MT9M021IA3XTMZ-DRBR |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | HiSPi™<br>Parallel | Mono  | IBGA-63      |
| MT9M021IA3XTMZ-TPBR |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | HiSPi™<br>Parallel | Mono  | IBGA-63      |
| MT9M031I12STC-DPBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | RGB   | ILCC-48      |
| MT9M031I12STC-DPBR1 |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | RGB   | ILCC-48      |
| MT9M031I12STC-DRBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | RGB   | ILCC-48      |
| MT9M031I12STM-DPBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | Mono  | ILCC-48      |
| MT9M031I12STM-DRBR  |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | Mono  | ILCC-48      |
| MT9M031I12STM-DRBR1 |                   | Pb-free<br>Halide free | Active | CMOS | 1.2        | 60               | 1/3 inch       | Global Shutter | 3.75 x 3.75     | Parallel           | Mono  | ILCC-48      |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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