

OSRAM

KEW GBBMD1U

KEW GBCLD1U

Product Information

EVIYOS™ HD25 gen1

KEW GBBMD1U

KEW GBCLD1U



ams OSRAM offers with EVIYOS™ HD25 gen1 a benchmark for intelligent HD headlamp solutions with 19.200-25.600 individual controllable pixels (aspect ratio of 1:3 or 1:4). EVIYOS™ HD25 gen1 is the first lighting device which can realize two different use cases: 1. High resolution ADB and 2. Safety relevant signal projection on the road. Please note, that this product is only available as product set. The EVIYOS LED will be delivered together with a Companion ASIC.



Applications

- Dynamic Forward Lighting
- Transportation
- Projection
- Projection & Display

Features

- 25600 pixels arranged in 320 rows x 80 lines (KEW GBBMD1U) or
- 19200 pixels arranged in 240 rows x 80 lines (KEW GBCLD1U)
- Pixel pitch 40µm
- Target Color Bin: Cx: 0.318; Cy: 0.33
- Wide operating temperature range of Tj = -40 °C to 125 °C for Companion ASIC
- Wide operating temperature range of Tj = -40 °C to 150 °C for the EVIYOS™ HD25 gen1
- Qualification: AEC-Q102 attachment 003 for high complex Optoelectronic Multichip Modules (planned) for EVIYOS® HD25 AEC-Q100 for Companion ASIC

1 General Description

The EVIYOS™ HD25 gen1 is an intelligent multi pixel light source solution for headlights combining an LED array with an LED driver IC. Each of the 25600 pixels can be controlled individually.

The light source can be used in combination with a digital Companion ASIC having UART, RGB8, and SPI/CSI video option.

The 25600 pixels are arranged in an aspect ratio of 1:4 having 80 lines and 320 columns. The EVIYOS™ HD25 gen1 can also be used with an aspect ratio of 1:3. In that case 80 lines and 240 columns of the EVIYOS™ HD25 gen1 are used.



Figure 1: Aspect Ratio of EVIYOS® 2.0

2 Ordering Information

| Type | Luminance ¹⁾³⁾ EV @ 1.97 mA | Ordering Code |
|---------------------------|---|---------------|
| KEW GBBMD1U ²⁾ | 75...100 MNits | Q65113A5388 |

Notes

- 1) Measured at nominal current at room temperature
- 2) Aspect ratio 1:4
- 3) Values are after brightness correction

| Type | Luminance ¹⁾³⁾ EV @ 1.97 mA | Ordering Code |
|---------------------------|---|---------------|
| KEW GBCLD1U ²⁾ | 75...100 MNits | Q65113A5387 |

Notes

- 1) Measured at nominal current at room temperature
- 2) Aspect ratio 1:3
- 3) Values are after brightness correction

| Type | Ordering Code |
|-------------------------------------|---------------|
| KEW GBXXD1U_COMPANION ¹⁾ | Q65113A4103 |

Notes

- 1) Companion ASIC