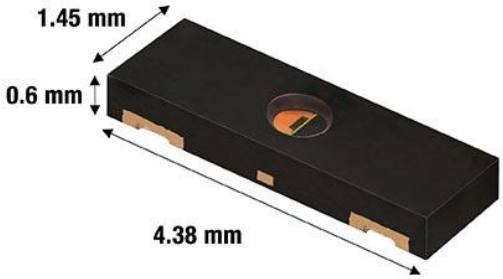
AEC-Q100 Qualified Ambient Light Sensor in Rectangular 4.38 mm x 1.45 mm x 0.6 mm Package Allows for Easier Integration Into Space-Constrained Designs, Offers High Resolution of 0.0026 lx/ct for Placement Behind Dark Cover Glass

Product Benefits:

- AEC-Q100 qualified
- Offered in narrow 4.38 mm by 1.45 by 0.6 mm surface-mount package
- Spectral sensitivity matches that of the human eye for highly accurate measurements
- IR channel allows for light source differentiation
- An ambient light range from 0 lx to 172 klx prevents saturation in daylight
- High sensitivity of 0.0026 lx/ct allows for placement behind dark cover glass
- High operating temperature range to +110 °C
- Supports the easy to use I²C bus communication interface
- Features an interrupt function
- Low shut down current consumption of 0.5 µA typical
- Moisture Sensitivity Level of 2a and a floor life of four weeks in accordance with J-STD-020
- RoHS-compliant, halogen-free, and Vishay Green



Market Applications:

- Display backlight controls, infotainment systems, rearview mirror dimming, interior lighting control systems, and heads-up displays

The News:

Vishay Intertechnology introduces the industry's first AEC-Q100 qualified rectangular ambient light sensor.

- The Automotive Grade VEML4031X00 features an ALS and highly sensitive IR photodiode in an opaque 4.38 mm by 1.45 surface-mount package with a low 0.6 mm profile
- Offering half the width of previous-generation solutions, the device allows for easier integration into space-constrained designs, such as bezel-less center control displays

The Key Specifications:

- Dimensions: 4.38 mm by 1.45 mm by 0.6 mm
- Operating voltage range: 2.5 V to 3.6 V
- I2C bus voltage range: 1.7 V to 3.6 V
- Ambient light range: 0 lx to 172 klx
- Ambient light resolution: 0.0026 lx
- Operating temperature range: -40 °C to +110 °C

Availability:
Samples and production quantities of the new ambient light sensor are available now, with lead times of 14 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?80348 (VEML4031X00)

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