



The DNA of tech.®

AEC-Q100 Qualified Ambient Light Sensor in Rectangular SMD Package

Offers High Resolution of 0.0026 lx/ct for Placement Behind Dark Cover Glass

AUTOMOTIVE
GRADE



ADVANTAGE

VEML4031X00 allows for easier integration into space-constrained designs, such as bezel-less center control displays

KEY PRODUCT FEATURES

- ✓ Ambient light range: 0 lx to 172 klx
- ✓ Dimensions (L x W x H in mm): 4.38 x 1.45 x 0.6
- ✓ Operating voltage range: 2.5 V to 3.6 V
- ✓ Low shut-down current consumption: typ. 0.5 μ A
- ✓ Communication via I²C interface
- ✓ Features an interrupt function



MARKETS AND APPLICATIONS



MOBILITY

- Automotive
 - Display backlight controls
 - Infotainment systems
 - Rear view mirror dimming
 - Interior lighting control systems
 - Head-up displays

ADDITIONAL BENEFITS

- The device features an ALS and highly sensitive IR photodiode. The spectral sensitivity matches that of the human eye for highly accurate measurements and the IR channel allows for light source differentiation
- The device offers a high operating temperature range (-40 °C to +110 °C)

RESOURCES



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