

AEC-Q102 Qualified Ambient Light Sensors Feature Spectral Sensitivity Matched to Human Eye and Improved Spectral Angular Performance

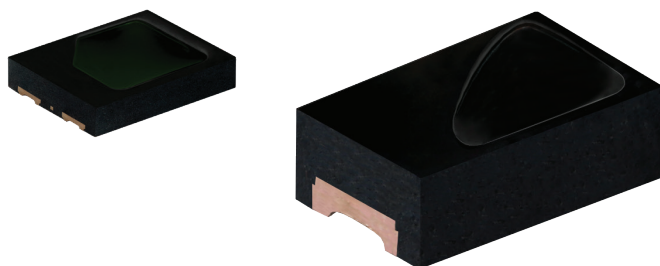



ADVANTAGE

Deliver accurate visible light measurement with no IR bump in compact 0805 and top-view QFN packages

KEY PRODUCT FEATURES

- ✓ Peak wavelength of 530 nm
- ✓ Low typical reverse light current down to 0.014 μA
- ✓ Wettable flanks for optical solder joint inspection
- ✓ Operate over an ambient temperature range of $-40\text{ }^{\circ}\text{C}$ to $+110\text{ }^{\circ}\text{C}$
- ✓ AEC-Q102 qualified
- ✓ Support lead (Pb)-free reflow soldering



MARKETS AND APPLICATIONS



MOBILITY

- Automotive intelligence (smart vehicle)
 - CID, HUD, and RLT



INDUSTRIAL

- Infrastructure
 - Backlight dimming
 - Automatic light control

ADDITIONAL BENEFITS

- For space-constrained applications, the VEMD4210FX02 offers typical reverse light current of 0.014 μA and a sensitivity range from 470 nm to 610 nm in a compact 0805 package with a radiant sensitive area of just 0.42 mm^2
- For applications requiring enhanced sensitivity - particularly in low light conditions - the VEMD5525FX02 offers a reverse light current of 0.11 μA and a sensitivity range from 480 nm to 590 nm in a top-view QFN package with a large 7.5 mm^2 radiant sensitive area

RESOURCES

