



LARGE PIN PHOTODIODES

7.5 mm² ACTIVE AREA

Radiant sensitive area of **7.5 mm²**



Low profile of **0.9 mm**

Rise and fall times down to **5 ns**

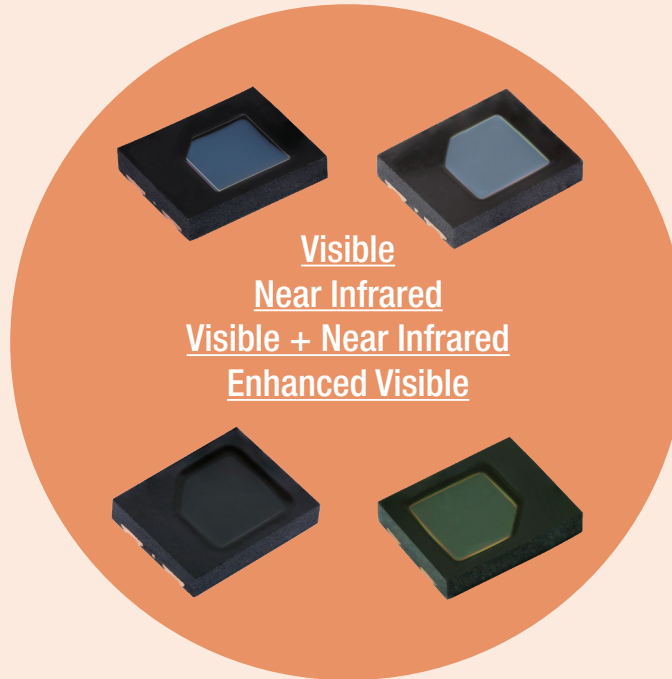


High photo sensitivity

Narrow variance of **output current** from part to part



Excellent **photocurrent linearity**



APPLICATIONS

Wearables

- Fitness Bands
- Smart Watches



Medical

- Pulse Oximetry
- Blood Analysis

Automotive

- Rain / Light / Tunnel Sensor
- Solar Sensor



Part Number	Spectral Bandwidth (nm)	Peak Wavelength λ_p (nm)	Output Current (μ A)	Angle of Half Sensitivity, ϕ (\pm deg)	Photo Sensitive Area (mm ²)	Package Dimensions L x W x H (mm)	Competitive Advantages	
VEMD5010X01	430 to 1100	940	48	65	7.5	5 x 4 x 0.9	AEC-Q101 qualified	Unique FAM packaging allows for high operating temperature up to +110 °C
VEMD5060X01	350 to 1070	820	26				Fastest rise and fall times. AEC-Q101 qualified	
VEMD5080X01	350 to 1100	950	45				Enhanced sensitivity to visible light. AEC-Q101 qualified	
VEMD5110X01	790 to 1050	940	48				Daylight blocking filter. AEC-Q101 qualified	
VEMD5160X01	700 to 1070	840	26				Daylight blocking filter with fastest rise and fall times. AEC-Q101 qualified	