





LARGE PIN PHOTO DIODES


7.5 mm² ACTIVE AREA

IN A NUTSHELL

Radiant sensitive area of **7.5 mm²** 

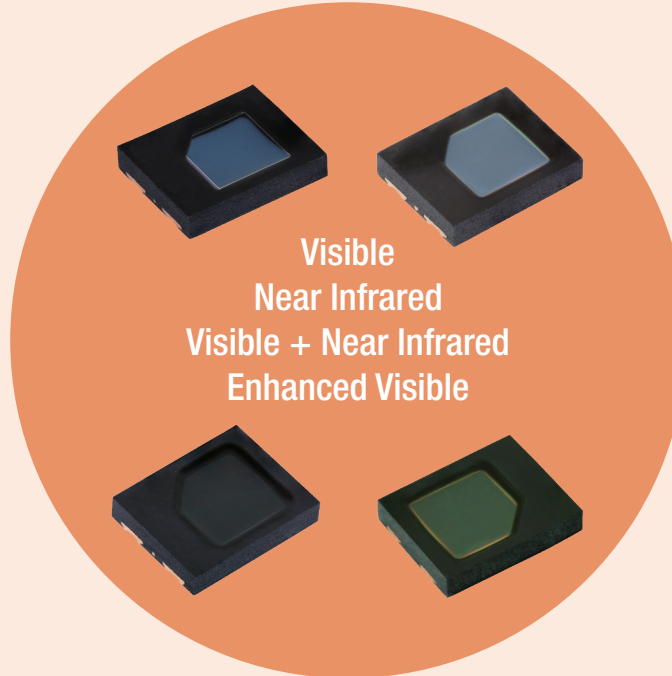
 **High** photo sensitivity

Low profile of **0.9 mm** 

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

Excellent **photocurrent linearity**

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



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 λp (nm)	Output Current (μA)	Angle of Half Sensitivity, φ (±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
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
VEMD5510C	440 to 700	550	0.6				Not sensitive to infrared radiation
VEMD5510CF	440 to 620	540	0.25				Not sensitive to infrared radiation and matches human eye sensitivity

Unique FAM packaging allows for high operating temperature up to +110 °C