

New VLMx335xx and VLMx235xx Series Automotive Grade Power LEDs Utilize Latest AlInGaP Technology in Smallest Chip Size for High Brightness and Drive Current

Offered in PLCC-2 and Ultra Compact MiniLED Packages, AEC-Q101 Qualified Devices Feature Luminous Intensity to 1400 mcd

Product Benefits:

- AEC-Q101 qualified
- Utilize latest AlInGaP technology
- Offered in PLCC-2 and 2.3 mm by 1.3 mm by 1.4 mm MiniLED packages
- Maximum drive current up to 50 mA
- Low thermal resistance down to 400 K/W
- Power dissipation of 130 mW
- High luminous intensity to 1400
- Offered in super red, red, amber, soft orange, and yellow
- $\pm 60^\circ$ angle of half-intensity
- Forward voltage down to 1.8 V
- Luminous intensity ratio per packing unit of ≤ 1.6
- RoHS-compliant, halogen-free, and [Vishay Green](#)
- Available in 8 mm tape
- ESD-withstand voltage up to 2 kV in accordance with JESD22-A114-B
- Compatible with preconditioning according to JEDEC Level 2a



Market Applications:

- Automotive interior and exterior lighting; traffic signals and signs; and indicators and backlighting for audio and video equipment, LCD switches, and symbols for general use

The News:

Vishay Intertechnology introduces two new series of surface-mount Automotive Grade power LEDs in PLCC-2 and ultra compact MiniLED packages. Utilizing the latest advanced AlInGaP technology in the smallest chip size available, the Vishay Semiconductors VLMx335xx and VLMx235xx series deliver high brightness and maximum drive current up to 50 mA for automotive, industrial, and consumer applications.

- Combination of low thermal resistance with high power dissipation enables high drive current
- Feature a lead-frame embedded in a white thermoplast, with an inside reflector filled with a clear epoxy
- Categorized, per packing unit, for luminous intensity and color



The Key Specifications:

Series	Color	Luminous intensity (mcd)			Wavelength (nm)		
		Min.	Typ.	Max.	Min.	Typ.	Max.
VLMS235S2U1	Super red	224	370	560	626	630	639
VLMR235T2V1	Red	355	520	900	619	625	631
VLMK235T2V1	Amber	355	550	900	611	616	622
VLMO235U1V2	Soft orange	450	650	1120	600	605	611
VLMO235U2V2	Soft orange	560	700	1120	602	605	609
VLMY235T2V1	Yellow	355	520	900	583	589	594
VLMS335T1U2	Super red	280	390	710	626	630	639
VLMR335U1V2	Red	450	560	1120	619	625	631
VLMK335U1V2	Amber	450	630	1120	611	616	622
VLMO335U2AA	Soft orange	560	700	1400	600	605	611
VLMY335U1V2	Yellow	450	600	1120	583	589	594

Availability:

Samples and production quantities of the VLMx335xx and VLMx235xx series will be available in Q4 2018, with lead times of six weeks.

For the latest in all things opto — articles, videos, and products — visit Vishay's Opto Squad blog site: www.vishayopto.com.

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?84589> (VLMx235xx)

<http://www.vishay.com/ppg?84911> (VLMx335xx)

Contact Information:

THE AMERICAS

Mr. Phil Cohen
phil.cohen@vishay.com

EUROPE

Mr. Kai Rottenberger
kai.rottenberger@vishay.com

ASIA/PACIFIC

Mr. Jason Soon
jason.soon@vishay.com