New Blue VLMB2332T1U2-08 and True Green VLMTG2332ABCA-08 SMD LEDs in Compact MiniLED Package Deliver High Luminous Intensity to 2300 mcd, Offer Wavelengths of 525 nm and 465 nm for Heart Rate Monitoring and Smoke Detection

Product Benefits:

- Available in 2.2 mm by 1.3 mm by 1.4 mm MiniLED package
- Offered in blue and true green
- Utilize the latest ultrabright InGaN chip technology
- High luminous intensity to 2300 mcd
- Typical wavelengths of 525 nm and 465 nm at 20 mA
- ± 60° angle of half-intensity
- A wide viewing angle of 120° provides homogenous illumination and backlighting
- Forward voltage of 2.9 V typical
- 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, IR reflow soldering according to J-STD-020, and automatic placement equipment

Market Applications:

- Medical light treatment
- Signal lights for agricultural equipment and energy generation systems
- Indicators and backlighting for office, entertainment, and telecommunications equipment
- LCD switches and symbols for general use
- Heart rate monitoring
- Smoke detection

The News:

Vishay Intertechnology introduces new blue and true green surface-mount LEDs in the ultra compact MiniLED package. Measuring 2.2 mm by 1.3 mm by 1.4 mm, the Vishay Semiconductors VLMB2332T1U2-08 and VLMTG2332ABCA-08 utilize the latest ultrabright InGaN chip technology to achieve typical luminous intensity of 440 mcd and 2300 mcd, respectively, which is up to four times higher than previous-generation solutions in PLCC-2 packages.

- With their high brightness and small size, the LEDs are the perfect choice for small scale, high power products that are expected to work reliably in arduous environments
- With a typical wavelength of 525 nm at 20 mA, the VLMTG2332ABCA-0 is ideal for heart rate monitoring applications in fitness trackers and other devices that rely on variations in green light absorption

- Offering a typical wavelength of 465 nm at 20 mA, the VLMB2332T1U2-08 is optimized for smoke detectors that utilize short wavelength blue light for the detection of small particles.
- MiniLED package features a lead-frame embedded in a white thermoplast
- Categorized, per packaging unit, for luminous intensity and color

The Key Specifications:

Part number		VLMB2332T1U2-08	VLMTG2332ABCA-08
Color		Blue	True green
Luminous intensity (mcd) at 20 mA	**Min.**	280	1400
	Typ.	440	2300
	Max.	710	3550
Wavelength (nm) at 20 mA	**Min.**	458	515
	Typ.	465	525
	Max.	472	541
Forward voltage (V) at 20 mA	**Min.**	2.6	
	Typ.	2.9	
	Max.	3.4	
Technology		InGaN / sapphire	

Availability:
Samples and production quantities of the VLMB2332T1U2-08 and VLMTG2332ABCA-08 are available now, with lead times of 12 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?80264 (VLMB2332T1U2-08, VLMTG2332ABCA-08)

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