

VLMx1700 - 0201 ChipLEDs in Seven Colors

Space-Saving Devices

Delivering High Luminous

Intensity to 140 mcd at 2 mA



ADVANTAGE

Deliver high brightness and offer half the footprint area of the 0402

KEY PRODUCT FEATURES

- ✓ Compact 0201 ChipLED package (0.65 mm x 0.375 mm x 0.35 mm)
- ✓ A wide 120° viewing angle ensures uniform visibility
- ✓ Available in blue, magenta, true green, white, yellow, soft orange, and red
- ✓ -40 °C to +85 °C operating temperature range
- ✓ ESD withstand voltage up to:
- ✓ 1 kV for blue, magenta, true green, and white
- ✓ 2 kV for yellow, soft orange, and red



RESOURCES



MARKETS AND APPLICATIONS



CONNECTIVITY

- Telecom mobile and fixed infrastructure
- Telecom mobile devices



CONSUMER

- Entertainment and appliances
- Health and care



MOBILITY

- Micro mobility
- Transportation
- Agricultural equipment



ENERGY SECTOR

- Generation and exploration
- Distribution and management
- Storage



INDUSTRIAL

- Automation and infrastructure
- Drives and tools
- Home and building controls



COMPUTER

- Computer
- Peripherals



HEALTHCARE

- Instrumentation, monitoring, therapeutics



VLMx1700 - 0201 ChipLEDs in Seven Colors

ADDITIONAL BENEFITS

- Grouped by luminous intensity, dominant wavelength (or CIE 1931 chromaticity coordinates for magenta and white), and forward voltage in one of the smallest surface-mount packages
- The devices utilize the latest high efficiency InGaN and AlInGaP
- Preconditioned to JEDEC® level 3
- Compatible with IR reflow soldering

KEY SPECIFICATIONS

Part Number		VLMB170	VLMM170	VLMTG170	VLMW170	VLMY170	VLMO170	VLMR170
Color		Blue	Magenta	True green	White	Yellow	Soft orange	Red
Luminous intensity (mcd) at $I_F = 2$ mA	Min.	14.5	11.5	57	36	4.5	7.2	7.2
	Max.	36	45	140	90	11.5	18	18
Wavelength (nm) at $I_F = 2$ mA	Min.	464.5	-	520	-	585.5	597.5	617.5
	Max.	476.5	-	535	-	594.5	609.5	633.5
Color coordinates (x, y)		-	0.41, 0.23	-	0.3, 0.3	-	-	-
Forward voltage (V) at $I_F = 2$ mA	Min	2.3	2.4	2.3	2.5	1.55	1.5	1.55
	Max.	3.1	3.1	3.1	2.9	2.35	2.2	2.35
Angle of half intensity (°)		± 60						
Technology		InGaN	InGaN	InGaN	InGaN	AlInGaP	AlInGaP	AlInGaP