



LEDs

365 nm, 385 nm, 395 nm, 405 nm,
PLCC-2, Ceramic SMT Package,
Low, Mid, and High Power Versions

UV LED



1.6 mm x 0.8 mm x 0.8 mm,
Automotive and Low Cost
Versions

0603



Gullwing or Reverse
Gullwing Versions,
Wide Emission Angle

DOME LENS
(WIDE ANGLE)



Red (625 nm), True Green
(526 nm), and Blue (470 nm),
AEC-Q101 Qualified

RGB



1.0 mm x 0.5 mm x 0.35 mm,
Super Thin Chip LED,
High Brightness

0402



PLCC-4, Red, Yellow, Green

BICOLOR, PLCC-4



AEC-Q101 Qualified,
Super Red, Red, Amber,
Soft Orange, Yellow

PLCC-2 (VLM.235..) SERIES



AEC-Q101 Qualified,
Super Red, Red, Amber,
Soft Orange, Yellow

MINI (VLM.235..) SERIES



Mini (VLM.235..) Series

Part	Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
			Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLS235S2U1	Super red	224	370	560	20	626	630	639	20	1.8	2.1	2.6	20	AlInGaP on Si
	VLMR235T2V1	Red	355	520	900		619	625	631			2.1			
	VLMK235T2V1	Amber	355	550	900		611	616	622			2.0			
	VLM0235U1V2	Soft orange	450	650	1120		600	605	611			2.0			
	VLM0235U2V2-35	Soft orange	560	700	1120		602	605	609			2.0			
	VLMY235T2V1	Yellow	355	520	900		583	589	594			2.1			

PLCC-2 (VLM.235..) Series

Part	Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength Dom. (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
			Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLS335T1U2	Super red	280	390	710	20	626	630	639	20	1.8	2	2.6	20	AlInGaP on Si
	VLMR335U1V2	Red	450	560	1120		619	625	631			2			
	VLMK335U1V2	Amber	450	630	1120		611	616	622			2.1			
	VLM0335U2AA	Soft orange	560	700	1400		600	605	611			2.1			
	VLMY335U1V2	Yellow	450	600	1120		583	589	594			2.15			

RGB

Part	Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength Dom. (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
			Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLMRGB343-ST-UV-RS	Red	140	-	285	20	618	625	628	20	-	1.8	2.45	20	AlInGaP
		True green	285	-	560		521	526	536		-	3.7	4.25		InGaP
		Blue	100	-	200		465	470	475		-	3.6	4.25		InGaP
	VLMRGB6112-00	Red	560	730	920		618	624	629		1.8	2	2.4		AlInGaP
		True green	900	1030	1800		519	526	534		2.7	3.1	3.6		InGaP
		Blue	180	230	450		463	469	476		2.7	3	3.6		InGaP

UV LED

Part		Color	Full Angle (°)	Radiant Power (mW)			at I _F (mA)	Wavelength (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology	
				Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.			
           	VLMU3100	Ultraviolet	120		6.8		20	400	405	410	20	2.8	3.2	3.8	20	InGaP	
	VLMU1610-365-135		135	14	20	26			362.5	367	370		20	3.5			4
	VLMU3510-365-130		130	560	690	835	500	362.5	367	370	500	3.2	4.0	4.4	500		AlGaP
	VLMU3500-385-060		60	620	780	940		380	385	390	500	2.8	3.4	4			
	VLMU3500-385-120		120					380	385	390							
	VLMU3500-395-060		60					390	395	400							
	VLMU3500-395-120		120					390	395	400							
	VLMU3500-405-060		60					400	405	410							
	VLMU3500-405-120		120					400	405	410							
	VLMU5200-385-140		140	1800	2500	3300		380	385	390	13	14.5	16				
	VLMU5200-395-140							390	395	400							
	VLMU5200-405-140							400	405	410							
	VLMU60CL00-280-125		125	1.4	2.4	3.8	20	270	280	290	20	4.4	6.2	7.5	20	AlGaP	



Bicolor (PLCC-4)																
Part		Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength Dom. (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
				Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLMV3100 ¹	Red	120	2.8	6	-	10	612	620	625	10	-	2.0	3	10	GaAsP
		Green		2.8	10	-		562	571	575		-	2.2	3		GaP
	VLMKE3400	Red		56	-	180	20	-	630	-	20	-	1.9	2.6	20	AlInGaP
	Yellow	90		-	280	581		588	594	-		2				
	VLMKE3401	Red		71	-	140		-	630	-		-	1.9			
	Yellow	112		-	224	581		588	594	-		2				
	VLMKG3400	Super red		56	-	140		627	633	639		-	1.9			
	Green	35.5		-	90	564		570	575	-		2				
	VLMRY3420	Amber		355	-	900		-	617	-		-	2.1			
	Yellow	560		-	1120	581		588	594	50		-	2.1			

Note: ¹ PLCC-3 common cathode

0603 Standard, PCB Based																
Part		Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength Dom. (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
				Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLS1300	Super red	130	18	54	-	20	-	631	-	20	-	2.0	2.4	20	AlInGaP
	VLM01300	Soft orange		45	90	-		-	605	-	20	-	2.0	2.4		AlInGaP
	VLMY1300	Yellow		28	-	180		584.5	-	597	20	1.8	-	2.4		AlInGaP
	VLMG1300	Yellow green		18	35	-		-	571	-	20	-	2.0	2.4		AlInGaP
	VLMTG1300	True green		71	-	450		-	525	-	20	2.8	3.2	3.6		InGaP
	VLMB1300	Blue		28	-	180		465	-	475	20	2.8	-	3.8		InGaP
	VLMB1310	Blue		28	-	180		465	-	475	20	2.8	-	3.8		InGaP
	VLMW1300	White		45	-	180	5	-	0.294, 0.286	-	5	2.7	-	3.15	5	InGaP/ yellow converter
	VLMTG1400	True green		1200	1400	2800	20	515	525	535	20	2.75	2.85	3.2	20	InGaP

0402 Standard																
Part		Color	Full Angle (°)	Luminous Intensity (mcd)			at I _F (mA)	Wavelength Dom. (nm) Chromaticity Coordinate (x, y)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
				Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLMS1500	Super red	130	18	54	180	20	-	631	-	20	1.80	2.00	2.40	20	AlInGaP
	VLM01500	Soft orange		45	90	280		598	605	612	20	1.80	2.00	2.40		
	VLMY1500	Yellow		28	90	180		587	590	597	20	1.80	2.00	2.40		
	VLMG1500	Yellow green		18	35	112		567.5	571	576.5	20	1.90	2.00	2.40		
	VLMTG1500	True green		28	-	280	520	-	535	5	2.50	-	3.10	5	InGaP	
	VLMB1500	Blue		11.2	28	45	470	472	475	5	2.65	2.80	3.15			
	VLMW1500	White		45	90	180	5	-	0.304, 0.300	-	5	2.65	2.90	3.05	5	InGaP / yellow converter

Dome Lens (Wide Angle)																
Part		Color	Full Angle (°)	Radiant Power (mW)			at I _F (mA)	Wavelength (nm)			at I _F (mA)	Forward Voltage (V)			at I _F (mA)	Technology
				Min.	Typ.	Max.		Min.	Typ.	Max.		Min.	Typ.	Max.		
	VLDS1535G	Super red	44	2800	5000	9000	50	626	630	637	50	1.9	2.2	2.7	50	AlInGaP on Si
	VLDS1535R	Super red		2800	5000	9000		626	630	637						
	VLDR1535G	Red		3550	6500	11200		619	624	631						
	VLDR1535R	Red		3550	6500	11200		619	624	631						
	VLDK1535G	Amber		4500	8000	14000		611	616	621			2.25			
	VLDK1535R	Amber						611	616	621						
	VLDY1535G	Yellow						583	589	595			2.3			
	VLDY1535R	Yellow						583	589	595						



Optoelectronics

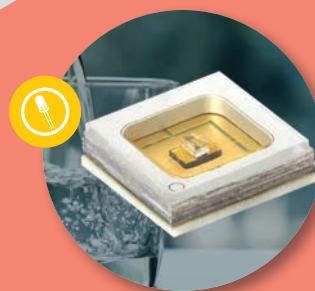
Bright Ideas, Stellar Products

Advantages of Vishay LEDs

- Every color, every package
- Huge portfolio of AEC-Q101 qualified LEDs
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For the Following Applications

- Automotive
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Extremely broad portfolio of
AEC-Q101 qualified LEDs

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- For technical questions, please contact
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AEC-Q101
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GREEN
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