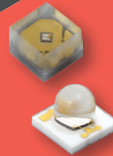


 **LEDs**

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

UV LED



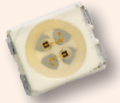
1.0 mm x 0.5 mm x 0.35 mm,
Super Thin Chip LED,
High Brightness

0402



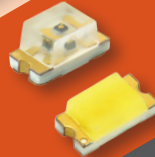
PLCC-4, Red, Yellow, Green

BICOLOR, PLCC-4



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



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.		
	VLSM235S2U1	Super red	224	370	560	20	626	630	639	20	1.8	2.6	20	AlInGaP on Si	
	VLMR235T2V1	Red	355	520	900		619	625	631						
	VLMK235T2V1	Amber	355	550	900		611	616	622						
	VLM0235U1V2	Soft orange	450	650	1120		600	605	611						
	VLM0235U2V2-35	Soft orange	560	700	1120		602	605	609						
	VLMY235T2V1	Yellow	355	520	900		583	589	594						

PLCC-2 (VLM.335..) 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.		
	VLSM335T1U2	Super red	280	390	710	20	626	630	639	20	1.8	2.6	20	AlInGaP on Si	
	VLMR335U1V2	Red	450	560	1120		619	625	631						
	VLMK335U1V2	Amber	450	630	1120		611	616	622						
	VLM0335U2AA	Soft orange	560	700	1400		600	605	611						
	VLMY335U1V2	Yellow	450	600	1120		583	589	594						

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		InGaN
		Blue	100	-	200		465	470	475		-	3.6	4.25		InGaN
	VLMRGB6112-00	Red	560	730	920	120	618	624	629	500	1.8	2.0	2.4	500	AlInGaP
		True green	900	1030	1800		519	526	534		2.7	3.1	3.6		InGaN
		Blue	180	230	450		463	469	476		2.7	3.0	3.6		InGaN

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.		
	Ultraviolet	120		6.8		20	400	405	410	20	2.8	3.2	3.8	500	InGaN
		135	14	20	26		362.5	367	370						
		130	560	690	835	500	362.5	367	370	500	2.8	3.4	4.0		
		60					380	385	390						
		120					380	385	390						
		60	620	780	940		390	395	400						
		120					390	395	400						
		60					400	405	410						
		120					400	405	410						

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	2.8	6	-	10	612	620	625	10	-	2.0	3.0	10	GaAsP
		Green	2.8	10	-		562	571	575		-	2.2	3.0		GaP
	VLMKE3400	Red	56	-	180	20	-	630	-	20	-	1.9	2.6	20	AllInGaP
		Yellow	90	-	280		581	588	594		-	2.0			
	VLMKE3401	Red	71	-	140		-	630	-		-	1.9			
		Yellow	112	-	224		581	588	594		-	2.0			
	VLMKG3400	Super red	56	-	140		627	633	639		-	1.9			
		Green	35.5	-	90		564	570	575		-	2.0			
VLMRY3420	Amber	355	-	900	-	617	-	-	2.1						
	Yellow	560	-	1120	50	581	588	594	50	-	2.1	50			

Note
⁽¹⁾ PLCC-3 common cathode

0603 Standard, PCB Based															
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.		
	VLMs1300	Super red	18	54	-	20	-	631	-	20	-	2.0	2.4	20	AllInGaP
	VLMo1300	Soft orange	45	90	-		-	605	-	20	-	2.0	2.4		AllInGaP
	VLMY1300	Yellow	28	-	180		584.5	-	597	20	1.8	-	2.4		AllInGaP
	VLMG1300	Yellow green	18	35	-		-	571	-	20	-	2.0	2.4		AllInGaP
	VLMTG1300	True green	71	-	450		-	525	-	20	2.8	3.2	3.6		InGaN
	VLMB1300	Blue	28	-	180		465	-	475	20	2.8	-	3.8		InGaN
	VLMB1310	Blue	28	-	180		465	-	475	20	2.8	-	3.8		InGaN
	VLMW1300	White	45	-	180		5	-	0.294, 0.286	-	5	2.7	-		3.15
	VLMTG1400	True green	1200	1400	2800	20	515	525	535	20	2.75	2.85	3.2	20	InGaN

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	18	54	180	20	-	631	-	20	1.80	2.00	2.40	20	AllInGaP
	VLMo1500	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		
	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	InGaN / 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	2800	5000	9000	50	626	630	637	50	1.9	2.2	2.7	50	AllInGaP on Si							
	VLDS1535R	Super red	2800	5000	9000		626	630	637													
	VLDR1535G	Red	3550	6500	11 200		619	624	631													
	VLDR1535R	Red	3550	6500	11 200		619	624	631													
	VLDK1535G	Amber	4500	8000	14 000		611	616	621													
	VLDK1535R	Amber					611	616	621													
	VLDY1535G	Yellow					583	589	595													
	VLDY1535R	Yellow					583	589	595									2.3				



Optoelectronics

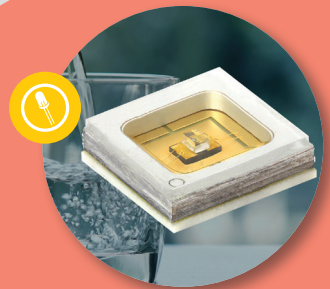
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