

electronicsoptek technology **High Brightness LEDs (Cont.)**

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.) @IF(mA)		Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	25	100		Size	Pricing	
Top View Surface Mount — Package: PLCC4																
12	—	InGaN	Blue	470	Water Clear	200	30	120°	365-1208-1-ND	.98	.66	.58	365-1208-2-ND	2,000	457.80/M	OVSABC2R8
	—	InGaN	Blue-Green	505	Water Clear	560	30	120°	365-1209-1-ND	1.29	.86	.76	365-1209-2-ND	2,000	600.60/M	OVSABC2R8
	—	InGaN	Green	527	Water Clear	700	30	120°	365-1210-1-ND	1.29	.86	.76	365-1210-2-ND	2,000	600.60/M	OVSABC2R8
	—	AlInGaP	Amber	591	Water Clear	700	50	120°	365-1206-1-ND	.77	.52	.45	365-1206-2-ND	2,000	358.40/M	OVSABC2R8
	—	AlInGaP	Red	628	Water Clear	900	50	120°	365-1213-1-ND	.74	.49	.43	365-1213-2-ND	2,000	343.00/M	OVSABC2R8
Top View Surface Mount with Domed Lens — Package: PLCC4																
13	—	AlInGaP	Amber	591	Water Clear	1650	50	60°	365-1207-1-ND	.77	.52	.45	365-1207-2-ND	700	250.88	OVSABC2R8
	—	AlInGaP	Red-Orange	618	Water Clear	2800	50	60°	365-1211-1-ND	.77	.52	.45	365-1211-2-ND	700	250.88	OVSABC2R8
	—	AlInGaP	Red	628	Water Clear	900	50	60°	365-1214-1-ND	.77	.52	.45	365-1214-2-ND	700	250.88	OVSABC2R8
Side Emitting Surface Mount — Package: RA PLCC																
14	—	InGaN	Blue	470	Water Clear	120	20	120°	365-1223-1-ND	1.19	.80	.70	365-1223-2-ND	500	278.60	OVSABC2R8
	—	InGaN	Blue-Green	505	Water Clear	400	20	120°	365-1224-1-ND	1.29	.86	.76	365-1224-2-ND	500	300.30	OVSABC2R8
	—	InGaN	Green	527	Water Clear	560	20	120°	365-1225-1-ND	1.38	.92	.81	365-1225-2-ND	500	322.00	OVSABC2R8
	—	AlInGaP	Amber	591	Water Clear	350	20	120°	365-1222-1-ND	.77	.52	.45	365-1222-2-ND	500	179.20	OVSABC2R8
	—	AlInGaP	Red	628	Water Clear	400	20	120°	365-1226-1-ND	.77	.52	.45	365-1226-2-ND	500	179.20	OVSABC2R8
Round — High Brightness																
15	5	InGaN	Blue	470	Water Clear	1350	20	30°	365-1180-ND	.77	.45	.43	—	—	—	OVLFB3C7
	5	InGaN	Green	525	Water Clear	5200	20	30°	365-1181-ND	1.23	.72	.68	—	—	—	OVLFG3C7
	5	AlInGaP	Yellow	589	Water Clear	5700	20	30°	365-1183-ND	.46	.27	.26	—	—	—	OVLFY3C7
	5	AlInGaP	Red	623	Water Clear	5000	20	30°	365-1182-ND	.46	.27	.26	—	—	—	OVLFR3C7
Round — High Intensity																
16	5	InGaN	Blue	470	Water Clear	3200	20	8°	365-1184-ND	1.01	.59	.56	—	—	—	OVLGB0C89
	5	InGaN	Blue-Green	505	Water Clear	8000	20	8°	365-1185-ND	.65	.38	.36	—	—	—	OVLGC0C89
	5	InGaN	Green	525	Water Clear	5000	20	8°	365-1186-ND	1.07	.63	.60	—	—	—	OVLGO0C89
	5	AlInGaP	Yellow	589	Water Clear	20000	20	8°	365-1190-ND	.43	.26	.24	—	—	—	OVLGY0C89
	5	AlInGaP	Red	631	Water Clear	10000	20	8°	365-1189-ND	.43	.26	.24	—	—	—	OVLGS0C89
Cylindrical — High Intensity																
17	5	InGaN	Blue	470	Water Clear	300	20	85°	365-1201-ND	.77	.45	.43	—	—	—	OVLB8C7
	5	InGaN	Green	525	Water Clear	670	20	85°	365-1202-ND	1.23	.72	.68	—	—	—	OVLG8C7
	5	AlInGaP	Yellow	589	Water Clear	650	20	85°	365-1204-ND	.46	.27	.26	—	—	—	OVLV8C7
	5	AlInGaP	Red	623	Water Clear	570	20	85°	365-1203-ND	.46	.27	.26	—	—	—	OVLV8C7

Fig.	Size (mm)	Chip			Lens Color	Luminous Flux (Typ.) @IF(mA)		Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel	OPTEK Technology Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(m/m)	@IF(mA)			1	25	100			
Super Flux 4-Pin															
18	7.6	InGaN	Blue	470	Water Clear	850	30	60°	365-1164-ND	.89	.52	.50	—	—	OVSF6C8
	7.6	InGaN	Green	527	Water Clear	2500	30	60°	365-1165-ND	1.19	.70	.67	—	—	OVSF6C8
	7.6	AlInGaP	Amber	591	Water Clear	5000	70	100°	365-1163-ND	.58	.34	.33	—	—	OVSFAA8
	7.6	AlInGaP	Red/Orange	618	Water Clear	4500	70	40°	365-1166-ND	.65	.38	.36	—	—	OVSF4C8
	7.6	AlInGaP	Red	624	Water Clear	4500	70	100°	365-1167-ND	.52	.31	.29	—	—	OVSF8C8
	7.6	InGaN	White	—	Water Clear	1200	30	60°	365-1168-ND	1.32	.77	.73	—	—	OVSF6C8

Full Color (RGB) Surface Mount



Fig.	Lens Color	IV (mcd)				Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Typical			@IF(mA)			1	25	100		Size	Pricing	
		Red	Green	Blue										
Top-View Chip														
19	Water Clear	20	100	300	80	110°	365-1230-1-ND	3.09	2.07	1.81	365-1230-2-ND	3,000	1443.40/M	OVSTRGBA6
20	Water Clear	20	152	550	180	Multiple	365-1233-1-ND	3.71	2.47	2.17	365-1233-2-ND	1,000	1729.00	OVSTRGBL6
21	Water Clear	20	53	165	46	Multiple	365-1232-1-ND	3.71	2.47	2.17	365-1232-2-ND	1,000	1729.00	OVSTRGBFC6
PLCC4														
22	Water Clear	20	300	450	110	120°	365-1212-1-ND	2.27	1.52	1.33	365-1212-2-ND	2,000	1058.40/M	OVSARGB3R8
PLCC6														
23	Water Clear	50	1000	900	280	120°	365-1231-1-ND	4.29	2.86	2.51	365-1231-2-ND	900	1800.54	OVSTRGB8R8

White InGaN Surface Mount



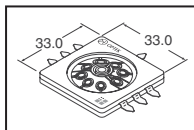
Fig.	Package	Chip		Lens Color	Luminous Intensity (Typ.) @IF(mA)		Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		OPTEK Technology Part No.
		Material	Emitted Color		(mcd)	@IF(mA)			1	25	100		Size	Pricing	
24	PLCC2	InGaN	White	Water Clear	750	20	120°	365-1205-1-ND	.65	.43	.38	365-1205-2-ND	2,000	301.00/M	OVS9WBCCR9
25	RA	GaN	White	Water Clear	1000	20	120°/110°	365-1228-1-ND	1.50	1.00	.88	365-1228-2-ND	3,000	700.00/M	OVS9WACR9
26	PLCC4	InGaN	White	Water Clear	1900	20	120°	365-1215-1-ND	3.83	2.56	2.24	365-1215-2-ND	2,000	1786.40/M	OVS9WBCCR9

electronicsoptek technology **NEW! 10 Watt LED Array**



OPTEK Lendum Solid State Lighting products package the highest quality LED chips. Typically the lumen maintenance of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being emitted after a specified operating time. This prediction is based on specific test results and on tests on similar materials, and relies on strict observation of the design limits and ratings.

Specifications: • Input Current: 1.05A • Junction Temperature: Tj = 25°C • Viewing Angle at half maximum intensity: 120° • DC Forward Current (A): 1.05 maximum



λD (nm)	Emitted Color	Typical Iv/flux	Forward Voltage (Vf)			Digi-Key Part No.	Price Each			OPTEK Technology Part No.
			Min.	Typ.	Max.		1	25	100	
—	White	250lm	8.9	9.1	9.25	365-1241-ND	67.49	60.75	55.68	OVTL09LGAW
467	Blue	60lm	8.9	9.1	9.25	365-1242-ND	58.51	52.67	48.28	OVTL09LGAB
624	Red	247lm	6.0	6.1	6.2	365-1243-ND	53.33	48.00	44.00	OVTL09LGAR
524	Green	290lm	9.75	9.9	10.1	365-1244-ND	63.67	57.31	52.54	OVTL09LGAG
595	Amber	330lm	6.3	6.4	6.5	365-1245-ND	53.33	48.00	44.00	OVTL09LGAA

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