

LITEON Surface Mount LEDs (Cont.)



Ultra-Bright AlInGaP Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typical		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Lite-On Part No.
						(mcd)	@ mA			1	10	100		Qty.	Pricing	
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.49	3.53	20.82	160-1405-2-ND	3,000	74.07/M	LTST-C150KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1402-1-ND	.59	4.24	24.98	160-1402-2-ND	3,000	94.26/M	LTST-C150KAKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1406-1-ND	.59	4.24	24.98	160-1406-2-ND	3,000	74.07/M	LTST-C150KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1404-1-ND	.59	4.24	24.98	160-1404-2-ND	3,000	74.07/M	LTST-C150KGKT
2	Green/Super Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1409-1-ND	.53	4.06	26.31	160-1409-2-ND	3,000	150.37/M	LTST-C155KGJRK
	Green/Yellow	Water Clear	574/591	2/2	30/30	35/75	20	130	160-1410-1-ND	.53	4.06	26.31	160-1410-2-ND	3,000	150.37/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.49	3.53	20.82	160-1415-2-ND	3,000	78.55/M	LTST-C170KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1412-1-ND	.61	4.34	25.57	160-1412-2-ND	3,000	96.51/M	LTST-C170KAKT
	Amber	Water Clear	611	2.0	30	60	20	130	160-1413-1-ND	.61	4.34	25.57	160-1413-2-ND	3,000	96.51/M	LTST-C170KFKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1416-1-ND	.61	4.34	25.57	160-1416-2-ND	3,000	96.51/M	LTST-C170KSKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.59	4.24	24.98	160-1427-2-ND	3,000	94.26/M	LTST-C171KRKT
	Amber Yellow	Water Clear	595	2.0	30	50	20	130	160-1429-1-ND	.59	4.24	24.98	160-1429-2-ND	3,000	94.26/M	LTST-C171KYKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1428-1-ND	.59	4.24	24.98	160-1428-2-ND	3,000	94.26/M	LTST-C171KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1426-1-ND	.59	4.24	24.98	160-1426-2-ND	3,000	94.26/M	LTST-C171KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.52	3.74	22.01	160-1436-2-ND	3,000	65.09/M	LTST-C190KRKT
	Red Orange	Water Clear	621	2.0	30	55	20	130	160-1433-1-ND	.52	3.74	22.01	160-1433-2-ND	3,000	83.04/M	LTST-C190KAKT
	Amber	Water Clear	611	2.0	30	60	20	130	160-1434-1-ND	.52	3.74	22.01	160-1434-2-ND	3,000	83.04/M	LTST-C190KFKT
	Amber Yellow	Water Clear	595	2.0	30	50	20	130	160-1438-1-ND	.52	3.74	22.01	160-1438-2-ND	3,000	83.04/M	LTST-C190KYKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.59	4.24	24.98	160-1447-2-ND	5,000	85.29/M	LTST-C191KRKT
	Red Orange	Water Clear	605	2.0	30	90	20	130	160-1445-1-ND	.59	4.24	24.98	160-1445-2-ND	5,000	85.29/M	LTST-C191KAKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1448-1-ND	.59	4.24	24.98	160-1448-2-ND	5,000	85.29/M	LTST-C191KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1446-1-ND	.59	4.24	24.98	160-1446-2-ND	5,000	85.29/M	LTST-C191KGKT
10	Green/Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1452-1-ND	.53	4.06	26.31	160-1452-2-ND	4,000	106.61/M	LTST-C195KGJRK
	Green/Yellow	Water Clear	574/591	2/2	30/30	35/75	20	130	160-1453-1-ND	.53	4.06	26.31	160-1453-2-ND	500	86.41	LTST-C195KGJSKT
11	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.61	4.34	25.57	160-1457-2-ND	3,000	78.55/M	LTST-C230KRKT
	Yellow	Water Clear	588	2.0	30	60	20	130	160-1458-1-ND	.61	4.34	25.57	160-1458-2-ND	3,000	96.51/M	LTST-C230KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1456-1-ND	.49	3.53	20.82	160-1456-2-ND	3,000	78.55/M	LTST-C230KGKT
13	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.56	4.04	23.79	160-1469-2-ND	4,000	71.82/M	LTST-S220KRKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1470-1-ND	.56	4.04	23.79	160-1470-2-ND	4,000	89.78/M	LTST-S220KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1468-1-ND	.56	4.04	23.79	160-1468-2-ND	4,000	89.78/M	LTST-S220KGKT
14	Super Red	Water Clear	639	2.0	30	54	20	130	160-1479-1-ND	.59	4.24	24.98	160-1479-2-ND	4,000	94.27/M	LTST-S270KRKT
	Amber	Water Clear	611	2.0	20	60	20	130	160-1477-1-ND	.59	4.24	24.98	160-1477-2-ND	4,000	94.27/M	LTST-S270KAKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1480-1-ND	.59	4.24	24.98	160-1480-2-ND	4,000	94.27/M	LTST-S270KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1478-1-ND	.59	4.24	24.98	160-1478-2-ND	4,000	94.27/M	LTST-S270KGKT
15	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.50	3.53	23.21	160-1487-2-ND	3,000	105.49/M	LTST-S320KRKT
	Yellow	Water Clear	591	2.0	30	60	20	130	160-1488-1-ND	.50	3.53	23.21	160-1488-2-ND	3,000	105.49/M	LTST-S320KSKT
	Green	Water Clear	574	2.0	30	35	20	130	160-1486-1-ND	.61	4.34	25.57	160-1486-2-ND	3,000	96.51/M	LTST-S320KGKT
16	Super Red	Water Clear	639	2.0	30	850	20	25	160-1463-1-ND	.55	3.91	25.68	160-1463-2-ND	1,500	105.82/M	LTST-C930KRKT
	Red Orange	Water Clear	621	2.0	30	1050	20	25	160-1461-1-ND	.55	3.91	25.68	160-1461-2-ND	1,500	116.71/M	LTST-C930KAKT
	Yellow	Water Clear	591	2.0	30	800	20	25	160-1464-1-ND	.55	3.91	25.68	160-1464-2-ND	1,500	116.71/M	LTST-C930KSKT
	Green	Water Clear	574	2.0	30	365	20	25	160-1462-1-ND	.55	3.91	25.68	160-1462-2-ND	1,500	116.71/M	LTST-C930KGKT
17	White	Yellow	—	3.6	30	1580	20	110	160-1773-1-ND	1.04	7.99	57.10	160-1773-2-ND	2,000	290.64/M	LTW-008ZDCG
	White	Yellow	—	3.4	20	3700	20	120	160-1765-1-ND	2.41	21.55	139.41	—	—	LTW-673DT	
18	White	Yellow	—	3.7	50	—	—	120	160-1766-1-ND	1.40	11.19	77.71	160-1766-2-ND	2,000	412.96/M	LTW-E670DS

◊ Maximum

Power LEDs

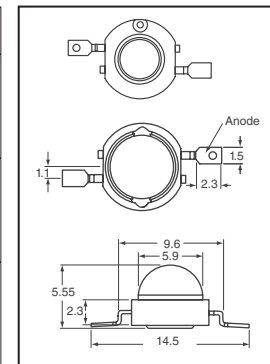


The LOPL (Lite-On Power LED) Emitter I is a 1W power LED package which is a point light source with more energy efficiency than incandescent and halogen lamps. The LTPL (Lite-On Power LED) is a revolutionary, energy efficient and ultra compact new light source, combining the lifetime and reliability advantages of Light Emitting Diodes with the brightness of conventional lighting. It gives total design freedom and unmatched brightness, creating a new opportunity for solid state lighting to displace conventional lighting technologies.

Features:
 • High power LED light source • Long life, up to 100k hours • Instant light (less than 100ns) • Low voltage DC operated • Low thermal resistance
Applications:
 • Portable lights • Traffic signaling • Backlighting • Interior and exterior automotive lighting • Decorative and landscape lighting • Medical illumination

Dimensions in mm

Emitted Color	Peak Wavelength Typical (nm)	VF Typical (V)	If (mA) Max.	Digi-Key Part No.	Cut Tape Pricing Each			Digi-Key Part No.	Tape and Reel Pricing 500	Lite-On Part No.
					1	10	100			
Amber	590	2.3	500	160-1803-1-ND	4.90	4.09	2.98	160-1803-2-ND	1077.83	LTPL-P011A
Blue	465	3.8	400	160-1804-1-ND	4.35	3.63	2.64	160-1804-2-ND	956.08	LTPL-P011B
Green	525	3.7	350	160-1805-1-ND	4.42	3.69	2.68	160-1805-2-ND	970.67	LTPL-P011G
Red/Orange	617	2.3	500	160-1806-1-ND	4.90	4.09	2.98	160-1806-2-ND	1077.83	LTPL-P011H
Red	625	2.3	500	160-1807-1-ND	4.90	4.09	2.98	160-1807-2-ND	1077.83	LTPL-P011R
Warm White	3250K	3.7	400	160-1808-1-ND	4.22	3.52	2.56	160-1808-2-ND	925.78	LTPL-P011MS
Warm White	3250K	3.5	700	160-1815-1-ND	5.70	4.75	3.46	160-1815-2-ND	1251.21	LTPL-P013MSS0
Cool White	5650K	3.5	700	160-1816-1-ND	5.33	4.44	3.23	160-1816-2-ND	1169.85	LTPL-P013WST1
Cool White	5650K	3.5	700	160-1817-1-ND	6.12	5.10	3.71	160-1817-2-ND	1342.66	LTPL-P013WST2
Cool White	5650K	3.5	700	160-1818-1-ND	6.95	5.79	4.21	160-1818-2-ND	1525.58	LTPL-P013WSU1
Cool White	5650K	3.5	700	160-1819-1-ND	9.68	8.39	5.65	160-1819-2-ND	2217.95	LTPL-P013WSU2
Warm White	3250K	3.9	1,000	160-1822-1-ND	9.04	7.85	5.28	160-1822-2-ND	2073.75	LTPL-P014MSS0
Cool White	6300K	3.9	1,000	160-1823-1-ND	9.81	8.50	5.73	160-1823-2-ND	2247.13	LTPL-P014WST2
Cool White	6300K	3.9	1,000	160-1824-1-ND	11.20	9.71	6.53	160-1824-2-ND	2565.26	LTPL-P014WSU1
Cool White	6300K	3.9	1,000	160-1825-1-ND	12.92	11.20	7.54	160-1825-2-ND	2960.82	LTPL-P014WSU2



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