

SMD LED Features and Maximum Rating									
LED Package Type	Surface Mount LED Part No.	Emission Color	Chip (Q'ty)	Surface Mount LED Dimensions L x W x H (mm)	Power Dissipation PD [mW]	Forward Current IF [mA]	Pulse Forward Current [mA]	IFP	Reverse Voltage VR [V]

Top View 1608 SMD Type LED	LBH1000N	BLUE	1 CHIP	1.6 x 0.8 x 0.4	70	20	100		5
	LBW1000N	BLUISH WHITE	1 CHIP	1.6 x 0.8 x 0.4	70	20	100		5
	LWH1000N	WHITE	1 CHIP	1.6 x 0.8 x 0.4	70	20	100		5
Top View 3020 SMD Type LED	LWH1030N	WHITE	1 CHIP	3.2 x 2.0 x 0.9	110	30	100		5
	LWH1030N2	WHITE	2 CHIP	3.2 x 2.0 x 0.9	180	50	200		5
	LRH1030S	RED	1 CHIP	3.2 x 2.0 x 0.9	80	35	100		
	LGM1030G	GREEN	1 CHIP	3.2 x 2.0 x 0.9	360	100	200		
	LBM1030G	BLUE	1 CHIP	3.2 x 2.0 x 0.9	360	100	200		

Top View 3528 SMD Type LED	LWH1035N	WHITE	1 CHIP	3.5 x 2.7 x 1.8	110	20	100		5
	LWH1032N	WHITE	2 CHIP	3.5 x 2.7 x 1.8	210	40	200		5
	LWH1033N	WHITE	3 CHIP	3.5 x 2.7 x 1.8	320	60	300		5
	LFH1036	FULL COLOR		3.5 x 2.7 x 1.4	R: 75 G: 110 B: 110	R: 30 G: 30 B: 30	R: 100 G: 100 B: 100		5

Top View 5450 SMD Type LED	LWH1056	WHITE	3 CHIP	5.5 x 5.0 x 1.6	320	60	300		5
	LWH1056N	WHITE	3 CHIP	5.5 x 5.0 x 1.6	320	60	300		5
	LBH1056	BLUE	3 CHIP	5.5 x 5.0 x 1.6	320	60	300		5
	LGH1056	GREEN	3 CHIP	5.5 x 5.0 x 1.6	320	60	300		5
	LRH1056	RED	3 CHIP	5.5 x 5.0 x 1.6	220	90	300		5
	LFH1056	FULL COLOR	3 CHIP	5.5 x 5.0 x 1.6	R: 75 G: 110 B: 110	R: 30 G: 30 B: 30	R: 100 G: 100 B: 100		5

Top View 5452 SMD Type LED	LWH1057N3	WHITE	3 CHIP	5.4 x 5.2 x 0.9	320	60	300		5
	LWH1057	WHITE	4 CHIP	5.4 x 5.2 x 0.9	380	80	360		5
	LWH1057N3	WHITE	4 CHIP	5.4 x 5.2 x 0.9	380	80	360		5

Side View SMD Type LED	LWH1025N	WHITE	1 CHIP	2.8 x 1.2 x 0.8	110	20	100		5
	LWH1028N	WHITE	1 CHIP	3.8 x 1.2 x 0.6	110	20	100		5

1 Watt SMD Type LED	LWX1057N6	WHITE	6 CHIP	5.4 x 5.2 x 0.9	1,200	300	600		5
	LWX1057G3	WHITE	3 CHIP	5.4 x 5.2 x 0.9	1,200	350	600		5

SMD LED Electrical and Optical Characteristics						
Test Condition	Forward Voltage VF [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]	Color Coordinates Cx/Cy	Color Temperature K	CRI

IF = 5mA	2.7 - 3.1	8.5 - 28	455 - 462.5			
IF = 5mA	2.7 - 3.0	90 - 200		Cx: 0.220 - 0.240 Cy: 0.155 - 0.215		
IF = 5mA	2.7 - 3.0	50 - 160		Cx: 0.285 - 0.315 Cy: 0.260 - 0.340		
IF = 20 mA	2.95 - 3.4	1,000 - 2,200			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 40 mA	2.95 - 3.4	2,500 - 4,500			Warm: 2,700 - 4,500 Pure: 5,000 - 8,000 Cool: 8,000 - 13,000	Cool: 68 - 95
IF = 20 mA	1.8 - 2.3	790 - 1,090	617.5 - 625			
IF = 47 mA	2.9 - 3.3	2,800 - 3,400	527.5 - 537.5			
IF = 22mA	2.6 - 3.2	120 - 300	450 - 460			

IF = 20 mA	2.95 - 3.4	1,000 - 2,000			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 40 mA	2.95 - 3.4	2,000 - 5,800			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	2.95 - 3.4	2,700 - 7,000			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	R: 1.8 - 2.4 G: 3.0 - 3.6 B: 3.0 - 3.6	R: 300 - 800 G: 850 - 1,600 B: 150 - 350	R: 615 - 630 G: 520 - 535 B: 460 - 470			

IF = 60 mA	2.95 - 3.4	5,000 - 7,500			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	2.95 - 3.4	5,000 - 7,500			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	2.95 - 3.4	600 - 1,200	455 - 465			
IF = 60 mA	2.95 - 3.4	2,000 - 4,000	520 - 535			
IF = 60 mA	2.95 - 3.4	800 - 1,600	615 - 630			
IF = 60 mA	2.95 - 3.4	R: 300 - 800 G: 850 - 1,600 B: 150 - 350	R: 615 - 630 G: 520 - 535 B: 460 - 470			

IF = 60 mA	2.95 - 3.4	5,000 - 7,500			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	2.95 - 3.4	6,000 - 10,000			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 60 mA	2.95 - 3.4	6,000 - 10,000			Warm: 2,700 - 4,500 Pure: 5,000 - 8,000 Cool: 8,000 - 13,000	Cool: 68 - 95

IF = 20 mA	2.95 - 3.4	1,000 - 2,000		Cx: 0.252 - 0.321 Cy: 0.220 - 0.305 Cy: 0.220 - 0.305		68 - 95
IF = 20 mA	2.95 - 3.4	1,000 - 2,000		Cx: 0.252 - 0.321		68 - 95

IF = 300 mA	2.95 - 3.6	15 - 40 [cd]			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95
IF = 300 mA	2.95 - 3.6	20 - 50 [cd]			Warm: 2,700 - 4,500 : 5,000 - 8,000 Cool: 8,000 - 13,000	Pure Cool: 68 - 95