

Standard LED Lamps

TYPE NO.	SOURCE COLOUR	λ_p (nm)	IV		Vf		LENS CHARACTERISTICS	VIEWING ANGLE 20 1/2 (degree)	PACKAGE	CASE
			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB18D	Red	700	0.5	10	3.0	20	Red Diffused	52	Dot Point ϕ 1.8mm	L-18b
MOB18D	Orange	630	16	20	3.0	20	Orange Diffused			
MOB18DR	Orange	640	16	20	3.0	20	Red Diffused			
MGB18D	Green	570	10	20	3.0	20	Green Diffused			
MYB18D	Yellow	585	6.4	20	3.0	20	Yellow Diffused			
MSB19D	Red	700	1.3	10	3.0	20	Red Diffused	96	Dot Point ϕ 1.8mm	L-19b
MRB19D	Red	660	1.8	20	2.0	20	Red Diffused			
MOB19D	Orange	630	8.1	20	3.0	20	Orange Diffused			
MOB19DR	Orange	640	8.1	20	3.0	20	Red Diffused			
MGB19D	Green	570	7.0	20	3.0	20	Green Diffused			
MYB19D	Yellow	585	5.9	20	3.0	20	Yellow Diffused			
MSB22D	Red	700	0.4	10	3.0	20	Red Diffused	64	Dot Point ϕ 2.1mm	L-22b
MRB22D	Red	660	0.6	20	2.0	20	Red Diffused			
MOB22D	Orange	630	2.6	20	3.0	20	Orange Diffused			
MOB22DR	Orange	640	2.6	20	3.0	20	Red Diffused			
MGB22D	Green	570	2.2	20	3.0	20	Green Diffused			
MYB22D	Yellow	585	1.8	20	3.0	20	Yellow Diffused			
MSB30D	Red	700	0.45	10	3.0	20	Red Diffused	112	2.9mm Arrow Head Pointer	L-30b
MRB30D	Red	660	0.40	20	2.0	20	Red Diffused			
MOB30D	Orange	630	6.5	20	3.0	20	Orange Diffused			
MOB30DR	Orange	640	6.5	20	3.0	20	Red Diffused			
MGB30D	Green	570	8.5	20	3.0	20	Green Diffused			
MYB30D	Yellow	585	4.5	20	3.0	20	Yellow Diffused			
MS31T	Red	700	2.0	10	3.0	20	Clear transparent	40	ϕ 3.2mm 0.69" Lead	L-31a
MR31T	Red	660	3.0	20	2.0	20	Clear transparent			
MO31T	Orange	630	45	20	3.0	20	Clear transparent			
MG31T	Green	570	60	20	3.0	20	Clear transparent			
MY31T	Yellow	585	25	20	3.0	20	Clear transparent			
MS31C	Red	700	2.0	10	3.0	20	Red transparent	60	ϕ 3.2mm 0.69" Lead	L-31a
MR31C	Red	660	3.0	20	2.0	20	Red transparent			
MO31C	Orange	630	45	20	3.0	20	Orange transparent			
MO31CR	Orange	640	45	20	3.0	20	Red transparent			
MG31C	Green	570	60	20	3.0	20	Green transparent			
MY31C	Yellow	585	25	20	3.0	20	Yellow transparent			
MS31D	Red	700	1.0	10	3.0	20	Red Diffused	60	ϕ 3.2mm 0.69" Lead	L-31a
MR31D	Red	660	1.0	20	2.0	20	Red Diffused			
MO31D	Orange	630	10	20	3.0	20	Orange Diffused			
MO31DR	Orange	640	10	20	3.0	20	Red Diffused			
MG31D	Green	570	15	20	3.0	20	Green Diffused			
MY31D	Yellow	585	8.0	20	3.0	20	Yellow Diffused			
MSB31T	Red	700	7.5	10	3.0	20	Clear transparent	40	ϕ 3.2mm 1.1" Lead	L-31b
MRB31T	Red	660	10	20	2.0	20	Clear transparent			
MOB31TA	Orange	630	60	20	3.0	20	Clear transparent			
MGB31TA	Green	570	150	20	3.0	20	Clear transparent			
MYB31TA	Yellow	585	50	20	3.0	20	Clear transparent			
MSB31C	Red	700	7.5	10	3.0	20	Red transparent	40	ϕ 3.2mm 1.1" Lead	L-31b
MRB31C	Red	660	10	20	2.0	20	Red transparent			
MOB31C	Orange	630	60	20	3.0	20	Orange transparent			
MOB31CR	Orange	640	60	20	3.0	20	Red transparent			
MGB31C	Green	570	150	20	3.0	20	Green transparent			
MYB31C	Yellow	585	50	20	3.0	20	Yellow transparent			

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TYPE NO.	SOURCE COLOUR	λ_p (nm)	IV		Vf		LENS CHARACTERISTICS	VIEWING ANGLE 20 1/2 (degree)	PACKAGE	CASE
			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB31W	Red	700	2.2	10	3.0	20	Clear Diffused	60	ϕ 3.2mm 1.1" Lead	L-31b
MRB31W	Red	660	1.5	20	2.0	20	Clear Diffused			
MOB31W	Orange	630	20	20	3.0	20	Clear Diffused			
MGB31W	Green	570	30	20	3.0	20	Clear Diffused			
MYB31W	Yellow	585	15	20	3.0	20	Clear Diffused			
MSB31D	Red	700	2.2	10	3.0	20	Red Diffused			
MRB31D	Red	660	1.5	20	2.0	20	Red Diffused			
MOB31D	Orange	630	20	20	3.0	20	Orange Diffused			
MOB31DR	Orange	640	20	20	3.0	20	Red Diffused			
MGB31D	Green	570	30	20	3.0	20	Green Diffused			
MYB31D	Yellow	585	15	20	3.0	20	Yellow Diffused			
MSB32T	Red	700	5.0	10	3.0	20	Clear transparent	30	T-1 Standard ϕ 3.0mm 1.1" Lead	L-32b
MRB32T	Red	660	5.0	20	2.0	20	Clear transparent			
MOB32TA	Orange	630	45	20	3.0	20	Clear transparent			
MGB32TA	Green	570	100	20	3.0	20	Clear transparent			
MYB32TA	Yellow	585	40	20	3.0	20	Clear transparent			
MSB32C	Red	700	5.0	10	3.0	20	Red transparent			
MRB32C	Red	660	5.0	20	2.0	20	Red transparent			
MOB32C	Orange	630	45	20	3.0	20	Orange transparent			
MOB32CR	Orange	640	45	20	3.0	20	Red transparent			
MGB32C	Green	570	100	20	3.0	20	Green transparent			
MYB32C	Yellow	585	40	20	3.0	20	Yellow transparent			
MSB32W	Red	700	1.8	10	3.0	20	Clear Diffused	50		
MRB32W	Red	660	1.2	20	2.0	20	Clear Diffused			
MOB32W	Orange	630	18	20	3.0	20	Clear Diffused			
MGB32W	Green	570	25	20	3.0	20	Clear Diffused			
MYB32W	Yellow	585	13	20	3.0	20	Clear Diffused			
MSB32D	Red	700	1.8	10	3.0	20	Red Diffused			
MRB32D	Red	660	1.2	20	2.0	20	Red Diffused			
MOB32D	Orange	630	18	20	3.0	20	Orange Diffused			
MOB32DR	Orange	640	18	20	3.0	20	Red Diffused			
MGB32D	Green	570	25	20	3.0	20	Green Diffused			
MYB32D	Yellow	585	13	20	3.0	20	Yellow Diffused			
MSB33D	Red	700	1.2	10	3.0	20	Red Diffused	70	ϕ 3.0mm Flangeless	L-33b
MRB33D	Red	700	1.0	20	2.0	20	Red Diffused			
MOB33D	Orange	630	15	20	3.0	20	Orange Diffused			
MOB33DR	Orange	640	15	20	3.0	20	Red Diffused			
MGB33D	Green	570	20	20	3.0	20	Green Diffused			
MYB33D	Yellow	585	12	20	3.0	20	Yellow Diffused			
MSB34D	Red	700	0.4	10	3.0	20	Red Diffused	140	ϕ 3.0mm Cylindrical	L-34b
MOB34D	Orange	630	4.0	20	3.0	20	Orange Diffused			
MOB34DR	Orange	640	4.0	20	3.0	20	Red Diffused			
MGB34D	Green	570	6.0	20	3.0	20	Green Diffused			
MYB34D	Yellow	585	4.0	20	3.0	20	Yellow Diffused			
MSB36D	Red	700	1.2	10	3.0	20	Red Diffused	60	ϕ 3.0mm Low Profile 1.1" Lead	L-36b
MRB36D	Red	660	1.0	20	2.0	20	Red Diffused			
MOB36D	Orange	630	15	20	3.0	20	Orange Diffused			
MOB36DR	Orange	640	15	20	3.0	20	Red Diffused			
MGB36D	Green	570	20	20	3.0	20	Red Diffused			
MYB36D	Yellow	585	12	20	3.0	20	Yellow Diffused			

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			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB37D	Red	700	0.35	10	3.0	20	Red Diffused	150	ϕ 3.0mm Flat Top Type	L-37b
MOB37D	Orange	630	3.5	20	3.0	20	Orange Diffused			
MOB37DR	Orange	640	3.5	20	3.0	20	Red Diffused			
MGB37D	Green	570	5.0	20	3.0	20	Green Diffused			
MYB37D	Yellow	585	3.0	20	3.0	20	Yellow Diffused			
MSB38D	Red	700	0.75	10	3.0	20	Red Diffused	70	ϕ 3.0mm Flangeless Low Profile	L-38b
MRB38D	Red	660	0.9	20	2.0	20	Red Diffused			
MOB38D	Orange	630	12	20	3.0	20	Orange Diffused			
MOB38DR	Orange	640	12	20	3.0	20	Red Diffused			
MGB38D	Green	570	18	20	3.0	20	Green Diffused			
MYB38D	Yellow	585	9.0	20	3.0	20	Yellow Diffused			
MSB41D	Red	700	1.2	10	3.0	20	Red Diffused	62	ϕ 4.0mm	L-41b
MRB41D	Red	660	1.2	20	2.0	20	Red Diffused			
MOB41D	Orange	630	18	20	3.0	20	Orange Diffused			
MOB41DR	Orange	640	18	20	3.0	20	Red Diffused			
MGB41D	Green	570	22	20	3.0	20	Green Diffused			
MYB41D	Yellow	585	13	20	3.0	20	Yellow Diffused			
MS47D	Red	700	0.4	10	3.0	20	Red Diffused	120	ϕ 4.7mm Flangeless	L-47a
MO47D	Orange	630	6.0	20	3.0	20	Orange Diffused			
MO47DR	Orange	640	6.0	20	3.0	20	Red Diffused			
MG47D	Green	570	7.0	20	3.0	20	Green Diffused			
MY47D	Yellow	585	4.0	20	3.0	20	Yellow Diffused			
MSB47D	Red	700	0.8	10	3.0	20	Red Diffused	52	ϕ 4.7mm Flangeless	L-47b
MOB47D	Orange	630	14	20	3.0	20	Orange Diffused			
MOB47DR	Orange	640	14	20	3.0	20	Red Diffused			
MGB47D	Green	570	16	20	3.0	20	Green Diffused			
MYB47D	Yellow	585	10	20	3.0	20	Yellow Diffused			
MS48D	Red	700	0.4	10	3.0	20	Red Diffused	170	ϕ 4.8mm Flangeless	L-48a
MO48D	Orange	630	6.0	20	3.0	20	Orange Diffused			
MO48DR	Orange	640	6.0	20	3.0	20	Red Diffused			
MG48D	Green	570	7.0	20	3.0	20	Green Diffused			
MY48D	Yellow	585	4.0	20	3.0	20	Yellow Diffused			
MSB48D	Red	700	0.8	10	3.0	20	Red Diffused	60	ϕ 4.8mm Flangeless	L-48b
MOB48D	Orange	630	14	20	3.0	20	Orange Diffused			
MOB48DR	Orange	640	14	20	3.0	20	Red Diffused			
MGB48D	Green	570	16	20	3.0	20	Green Diffused			
MYB48D	Yellow	585	10	20	3.0	20	Yellow Diffused			
MS51D	Red	700	0.75	10	3.0	20	Red Diffused	60	T-1 3/4 Standard ϕ 5.0mm 0.83" Lead	L-51a
MR51D	Red	660	0.8	20	2.0	20	Red Diffused			
MO51D	Orange	630	6.5	20	3.0	20	Orange Diffused			
MO51DR	Orange	640	6.5	20	3.0	20	Red Diffused			
MG51DR	Green	570	8.0	20	3.0	20	Green Diffused			
MY51D	Yellow	585	6.5	20	3.0	20	Yellow Diffused			
MSB51T	Red	700	6.0	10	3.0	20	Clear transparent	70	T-1 3/4 Standard ϕ 5.0mm 1" Lead	L-51b
MRB51T	Red	660	8.0	20	2.0	20	Clear transparent			
MOB51T	Orange	630	80	20	3.0	20	Clear transparent			
MGB51T	Green	570	100	20	3.0	20	Clear transparent			
MYB51T	Yellow	585	60	20	3.0	20	Clear transparent			
MSB51C	Red	700	6.0	10	3.0	20	Red transparent			
MRB51C	Red	660	8.0	20	2.0	20	Red transparent			
MOB51C	Orange	630	80	20	3.0	20	Orange transparent			
MOB51CR	Orange	640	80	20	3.0	20	Red transparent			
MGB51C	Green	570	100	20	3.0	20	Green transparent			
MYB51C	Yellow	585	60	20	3.0	20	Yellow transparent			

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			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB51W	Red	700	3.5	10	3.0	20	Clear Diffused	40	T-1 3/4 Standard ϕ 5.0mm 1" Lead	L-51b
MRB51W	Red	660	3.0	20	2.0	20	Clear Diffused			
MOB51W	Orange	630	35	20	3.0	20	Clear Diffused			
MGB51W	Green	570	40	20	3.0	20	Clear Diffused			
MYB51W	Yellow	585	30	20	3.0	20	Clear Diffused			
MSB51D	Red	700	3.5	10	3.0	20	Red Diffused			
MRB51D	Red	660	3.0	20	2.0	20	Red Diffused			
MOB51D	Orange	630	35	20	3.0	20	Orange Diffused			
MOB51DR	Orange	640	35	20	3.0	20	Red Diffused			
MGB51D	Green	570	40	20	3.0	20	Green Diffused			
MYB51D	Yellow	585	30	20	3.0	20	Yellow Diffused			
MSB52D	Red	700	1.2	10	3.0	20	Red Diffused	60	Medium Profile ϕ 4.8mm 1.1" Lead	L-52b
MRB52D	Red	660	1.0	20	2.0	20	Red Diffused			
MOB52D	Orange	630	12	20	3.0	20	Orange Diffused			
MOB52DR	Orange	640	12	20	3.0	20	Red Diffused			
MGB52D	Green	570	16	20	3.0	20	Green Diffused			
MYB52D	Yellow	585	9.0	20	3.0	20	Yellow Diffused			
MSB53D	Red	700	0.30	10	3.0	20	Red Diffused	180	ϕ 5.0mm Flat Top	L-53b
MRB53D	Red	660	0.25	20	2.0	20	Red Diffused			
MOB53D	Orange	630	3.5	20	3.0	20	Orange Diffused			
MOB53DR	Orange	640	3.5	20	3.0	20	Red Diffused			
MGB53D	Green	570	4.0	20	3.0	20	Green Diffused			
MYB53D	Yellow	585	2.5	20	3.0	20	Yellow Diffused			
MSB55T	Red	700	0.25	10	3.0	20	Clear transparent	170	ϕ 5.0mm Cylindrical	L-55b
MRB55T	Red	660	0.20	20	2.0	20	Clear transparent			
MOB55T	Orange	630	2.5	20	3.0	20	Clear transparent			
MGB55T	Green	570	2.8	20	3.0	20	Clear transparent			
MYB55T	Yellow	585	1.8	20	3.0	20	Clear transparent			
MSB56T	Red	700	15	10	3.0	20	Clear transparent	34	ϕ 5.0mm Low Profile	L-56b
MRB56T	Red	660	10	20	2.0	20	Clear transparent			
MOB56T	Orange	630	160	20	3.0	20	Clear transparent			
MGB56T	Green	570	180	20	3.0	20	Clear transparent			
MYB56T	Yellow	585	100	20	3.0	20	Clear transparent			
MSB61D	Red	700	0.50	10	3.0	20	Red Diffused	156	2.5 x 5mm Rectangular Bars	L-61b
MRB61D	Red	660	0.35	20	2.0	20	Red Diffused			
MOB61D	Orange	630	2.5	20	3.0	20	Orange Diffused			
MOB61DR	Orange	640	2.5	20	3.0	20	Red Diffused			
MGB61D	Green	570	3.0	20	3.0	20	Green Diffused			
MYB61D	Yellow	585	2.2	20	3.0	20	Yellow Diffused			
MSB62D	Red	700	0.60	10	3.0	20	Red Diffused	160	1.95 x 4.88mm Rectangular Bars	L-62b
MRB62D	Red	660	0.40	20	2.0	20	Red Diffused			
MOB62D	Orange	630	3.0	20	3.0	20	Orange Diffused			
MOB62DR	Orange	640	3.0	20	3.0	20	Red Diffused			
MGB62D	Green	570	3.5	20	3.0	20	Green Diffused			
MYB62D	Yellow	585	2.5	20	3.0	20	Yellow Diffused			
MSB63D	Red	700	0.7	10	3.0	20	Red Diffused	156	1.93 x 4.93mm Flangeless Rectangular Bars	L-63b
MRB63D	Red	660	0.5	20	2.0	20	Red Diffused			
MOB63D	Orange	630	3.5	20	3.0	20	Orange Diffused			
MOB63DR	Orange	640	3.5	20	3.0	20	Red Diffused			
MGB63D	Green	570	4.5	20	3.0	20	Green Diffused			
MYB63D	Yellow	585	3.0	20	3.0	20	Yellow Diffused			

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			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB64D	Red	700	0.7	10	3.0	20	Red Diffused	148	2 x 4.95mm Flangeless Rectangular Bars	L-64b
MRB64D	Red	660	0.5	20	2.0	20	Red Diffused			
MOB64D	Orange	630	3.5	20	3.0	20	Orange Diffused			
MOB64DR	Orange	640	3.5	20	3.0	20	Red Diffused			
MGB64D	Green	570	4.5	20	3.0	20	Green Diffused			
MYB64D	Yellow	585	3.0	20	3.0	20	Yellow Diffused			
MSB65D	Red	700	0.5	10	3.0	20	Red Diffused	140	2 x 4.0mm Flangeless Rectangular Bars	L-65b
MRB65D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB65D	Orange	630	2.5	20	3.0	20	Orange Diffused			
MOB65DR	Orange	640	2.5	20	3.0	20	Red Diffused			
MGB65D	Green	570	3.0	20	3.0	20	Green Diffused			
MYB65D	Yellow	585	2.0	20	3.0	20	Yellow Diffused			
MSB66D	Red	700	0.7	10	3.0	20	Red Diffused	142	1.75 x 4.0mm Flangeless Rectangular Bars	L-66b
MRB66D	Red	660	0.5	20	2.0	20	Red Diffused			
MOB66D	Orange	630	3.6	20	3.0	20	Orange Diffused			
MOB66DR	Orange	640	3.6	20	3.0	20	Red Diffused			
MGB66D	Green	570	4.0	20	3.0	20	Green Diffused			
MYB66D	Yellow	585	2.8	20	3.0	20	Yellow Diffused			
MSB67D	Red	700	0.5	10	3.0	20	Red Diffused	180	2.5 x 6.8mm Flangeless Rectangular Bars	L-67b
MRB67D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB67D	Orange	630	2.5	20	3.0	20	Orange Diffused			
MOB67DR	Orange	640	2.5	20	3.0	20	Red Diffused			
MGB67D	Green	570	3.7	20	3.0	20	Green Diffused			
MYB67D	Yellow	585	2.1	20	3.0	20	Yellow Diffused			
MSB68D	Red	700	0.5	10	3.0	20	Red Diffused	180	4.95 x 4.95mm Flangeless Rectangular Bars	L-68b
MRB68D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB68D	Orange	630	2.6	20	3.0	20	Orange Diffused			
MOB68DR	Orange	640	2.6	20	3.0	20	Red Diffused			
MGB68D	Green	570	3.8	20	3.0	20	Green Diffused			
MYB68D	Yellow	585	2.2	20	3.0	20	Yellow Diffused			
MSB69D	Red	700	0.5	10	3.0	20	Red Diffused	180	3.87 x 6.75mm Flangeless Rectangular Bars	L-69b
MRB69D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB69D	Orange	630	2.4	20	3.0	20	Orange Diffused			
MOB69DR	Orange	640	2.4	20	3.0	20	Red Diffused			
MGB69D	Green	570	3.7	20	3.0	20	Green Diffused			
MYB69D	Yellow	585	2.1	20	3.0	20	Yellow Diffused			
MSB70D	Red	700	0.5	10	3.0	20	Red Diffused	148	2.15 x 4.95mm Flangeless Rectangular Bars	L-70b
MRB70D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB70D	Orange	630	2.6	20	3.0	20	Orange Diffused			
MOB70DR	Orange	640	2.6	20	3.0	20	Red Diffused			
MGB70D	Green	570	3.9	20	3.0	20	Green Diffused			
MYB70D	Yellow	585	2.2	20	3.0	20	Yellow Diffused			
MSB71D	Red	700	0.6	10	3.0	20	Red Diffused	180	3.0 x 5.0mm Flangeless Rectangular Bars	L-71b
MRB71D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB71D	Orange	630	2.5	20	3.0	20	Orange Diffused			
MOB71DR	Orange	640	2.5	20	3.0	20	Red Diffused			
MGB71D	Green	570	3.6	20	3.0	20	Green Diffused			
MYB71D	Yellow	585	2.0	20	3.0	20	Yellow Diffused			
MSB72D	Red	700	0.4	10	3.0	20	Red Diffused	154	2.0 x 4.95mm Rectangular Bars	L-72b
MRB72D	Red	660	0.3	20	2.0	20	Red Diffused			
MOB72D	Orange	630	2.2	20	3.0	20	Orange Diffused			
MOB72DR	Orange	640	2.2	20	3.0	20	Red Diffused			
MGB72D	Green	570	2.6	20	3.0	20	Green Diffused			
MYB72D	Yellow	585	1.6	20	3.0	20	Yellow Diffused			

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TYPE NO.	SOURCE COLOUR	λ_p (nm)	IV		Vf		LENS CHARACTERISTICS	VIEWING ANGLE 2 θ 1/2 (degree)	PACKAGE	CASE
			MIN (mcd)	If (mA)	MAX (V)	If (mA)				
MSB73D	Red	700	0.3	10	3.0	20	Red Diffused	140	0.95 x 4.9mm Rectangular Bars	L-73b
MRB73D	Red	660	0.2	20	2.0	20	Red Diffused			
MOB73D	Orange	630	1.5	20	3.0	20	Orange Diffused			
MOB73DR	Orange	640	1.5	20	3.0	20	Red Diffused			
MGB73D	Green	570	1.75	20	3.0	20	Green Diffused			
MYB73D	Yellow	585	1.28	20	3.0	20	Yellow Diffused			
MSB74D	Red	700	0.22	10	3.0	20	Red Diffused	152	1.2 x 3.4mm Flangeless Rectangular Bars	L-74b
MRB74D	Red	660	0.15	20	2.0	20	Red Diffused			
MOB74D	Orange	630	2.8	20	3.0	20	Orange Diffused			
MOB74DR	Orange	640	2.8	20	3.0	20	Red Diffused			
MGB74D	Green	570	3.55	20	3.0	20	Green Diffused			
MYB74D	Yellow	585	2.5	20	3.0	20	Yellow Diffused			
MSB75D	Red	700	0.25	10	3.0	20	Red Diffused	172	1.9 x 3.1mm Flangeless Rectangular Bars	L-75b
MRB75D	Red	660	0.18	20	2.0	20	Red Diffused			
MOB75D	Orange	630	3.45	20	3.0	20	Orange Diffused			
MOB75DR	Orange	640	3.45	20	3.0	20	Red Diffused			
MGB75D	Green	570	4.0	20	3.0	20	Green Diffused			
MYB75D	Yellow	585	2.65	20	3.0	20	Yellow Diffused			
MSB76D	Red	700	0.6	10	3.0	20	Red Diffused	88	ϕ 2.0 x 3.7mm Nipple Type	L-76b
MRB76D	Red	660	0.4	20	2.0	20	Red Diffused			
MOB76D	Orange	630	3.0	20	3.0	20	Orange Diffused			
MOB76DR	Orange	640	3.0	20	3.0	20	Red Diffused			
MGB76D	Green	570	3.5	20	3.0	20	Green Diffused			
MYB76D	Yellow	585	2.5	20	3.0	20	Yellow Diffused			
MSB77D	Red	700	0.4	10	3.0	20	Red Diffused	172	1.4 x 3.7mm Rectangular Bars	L-77b
MRB77D	Red	660	0.3	20	2.0	20	Red Diffused			
MOB77D	Orange	630	1.8	20	3.0	20	Orange Diffused			
MOB77DR	Orange	640	1.8	20	3.0	20	Red Diffused			
MGB77D	Green	570	2.2	20	3.0	20	Green Diffused			
MYB77D	Yellow	585	1.6	20	3.0	20	Yellow Diffused			
MSB78D	Red	700	0.7	10	3.0	20	Red Diffused	180	5.0 x 5.0mm Rectangular Bars	L-78b
MRB78D	Red	660	0.5	20	2.0	20	Red Diffused			
MOB78D	Orange	630	3.4	20	3.0	20	Orange Diffused			
MOB78DR	Orange	640	3.4	20	3.0	20	Red Diffused			
MGB78D	Green	570	4.0	20	3.0	20	Green Diffused			
MYB78D	Yellow	585	2.8	20	3.0	20	Yellow Diffused			
MSB79D	Red	700	0.8	10	3.0	20	Red Diffused	86	1.90 x 3.97mm Round Rectangular Bars	L-79b
MRB79D	Red	660	0.6	20	2.0	20	Red Diffused			
MOB79D	Orange	630	4.2	20	3.0	20	Orange Diffused			
MOB79DR	Orange	640	4.2	20	3.0	20	Red Diffused			
MGB79D	Green	570	5.0	20	3.0	20	Green Diffused			
MYB79D	Yellow	585	3.6	20	3.0	20	Yellow Diffused			
MOB80T	Orange	630	60	20	3.0	20	Clear transparent	46	ϕ 7.8mm 1" Lead	L-80b
MGB80T	Green	570	75	20	3.0	20	Clear transparent			
MYB80T	Yellow	585	50	20	3.0	20	Clear transparent			
MOB80C	Orange	630	60	20	3.0	20	Orange transparent			
MOB80CR	Orange	640	60	20	3.0	20	Red transparent	56		
MGB80C	Green	570	75	20	3.0	20	Green transparent			
MYB80C	Yellow	585	50	20	3.0	20	Yellow transparent			
MOB80D	Orange	630	20	20	3.0	20	Orange Diffused			
MOB80DR	Orange	640	20	20	3.0	20	Red Diffused			
MGB80D	Green	570	25	20	3.0	20	Green Diffused			
MYB80D	Yellow	585	18	20	3.0	20	Yellow Diffused			

Standard LED Lamps

TYPE NO.	SOURCE COLOUR	λ_p (nm)	IV		Vf		LENS CHARACTERISTICS	VIEWING ANGLE 2θ 1/2 (degree)	PACKAGE	CASE		
			MIN (mcd)	If (mA)	MAX (V)	If (mA)						
MSB81D	Red	700	2.8	10	3.0	20	Red Diffused	124	2.37 x 4.88mm Round Rectangular Bars	L-81b		
MRB81D	Red	660	2.2	20	2.0	20	Red Diffused					
MOB81D	Orange	630	25	20	3.0	20	Orange Diffused					
MOB81DR	Orange	640	25	20	3.0	20	Red Diffused					
MGB81D	Green	570	30	20	3.0	20	Green Diffused					
MYB81D	Yellow	585	22	20	3.0	20	Yellow Diffused					
MSB82D	Red	700	0.7	10	3.0	20	Red Diffused	180	3.6 x 3.6mm Flangeless Rectangular Bars	L-82b		
MRB82D	Red	660	0.5	20	2.0	20	Red Diffused					
MOB82D	Orange	630	3.5	20	3.0	20	Orange Diffused					
MOB82DR	Orange	640	3.5	20	3.0	20	Red Diffused					
MGB82D	Green	570	4.0	20	3.0	20	Green Diffused					
MYB82D	Yellow	585	2.8	20	3.0	20	Yellow Diffused					
MSB83D	Red	700	0.8	10	3.0	20	Red Diffused	92	1.7 x 3.95mm Round Rectangular Bars	L-83b		
MRB83D	Red	660	0.6	20	2.0	20	Red Diffused					
MOB83D	Orange	630	4.8	20	3.0	20	Orange Diffused					
MOB83DR	Orange	640	4.8	20	3.0	20	Red Diffused					
MGB83D	Green	570	5.5	20	3.0	20	Green Diffused					
MYB83D	Yellow	585	4.5	20	3.0	20	Yellow Diffused					
MOB100T	Orange	630	50	20	3.0	20	Clear transparent	28	ϕ 10mm 1" Lead	L-100b		
MGB100T	Green	565	60	20	3.0	20	Clear transparent					
MYB100T	Yellow	585	45	20	3.0	20	Clear transparent					
MOB100C	Orange	630	50	20	3.0	20	Orange transparent					
MOB100CR	Orange	640	50	20	3.0	20	Red transparent	60				
MGB100C	Green	570	60	20	3.0	20	Green transparent					
MYB100C	Yellow	585	45	20	3.0	20	Yellow transparent					
MOB100D	Orange	630	18	20	3.0	20	Orange Diffused	24			ϕ 12mm 1" Lead	L-120b
MOB100DR	Orange	640	18	20	3.0	20	Red Diffused					
MGB100D	Green	570	20	20	3.0	20	Green Diffused					
MYB100D	Yellow	585	15	20	3.0	20	Yellow Diffused					
MOB120T	Orange	630	50	20	3.0	20	Clear transparent	66	ϕ 5.0mm Oval Type	L-2310z		
MGB120T	Green	570	60	20	3.0	20	Clear transparent					
MYB120T	Yellow	585	45	20	3.0	20	Clear transparent					
MOB120C	Orange	630	50	20	3.0	20	Orange transparent	50				
MOB120CR	Orange	640	50	20	3.0	20	Red transparent					
MGB120C	Green	570	60	20	3.0	20	Green transparent					
MYB120C	Yellow	585	45	20	3.0	20	Yellow transparent					
MOB120D	Orange	630	18	20	3.0	20	Orange Diffused	50				
MOB120DR	Orange	640	18	20	3.0	20	Red Diffused					
MGB120D	Green	570	20	20	3.0	20	Green Diffused					
MYB120D	Yellow	585	15	20	3.0	20	Yellow Diffused					
MGZ2310T	Green	570	100	20	3.0	20	Clear transparent	50	ϕ 5.0mm Oval Type	L-2310z		
MGZ2310T-2	Green	570	170	20	3.0	20	Clear transparent					
MGZ2310T-3	Green	570	250	20	3.0	20	Clear transparent					