

# Kingbright

## Optoelectronic Components

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## SUBMINIATURE LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
KM2520SURCK01	AlGaInP	630	water clear	500	1000	20°	<p>Subminiature Solid State Lamps</p>
KM2520SYCK01	AlGaInP	590	water clear	1300	2300	20°	
KM2520SGC01	GaP	568	water clear	40	90	20°	

## ROUND LED


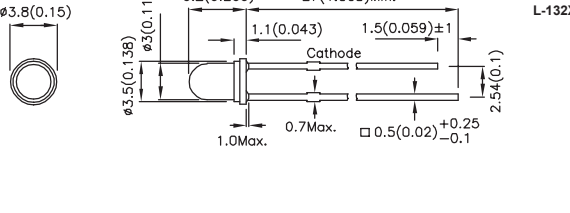

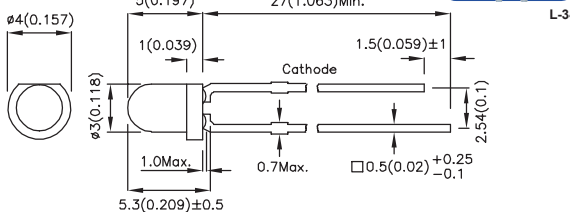

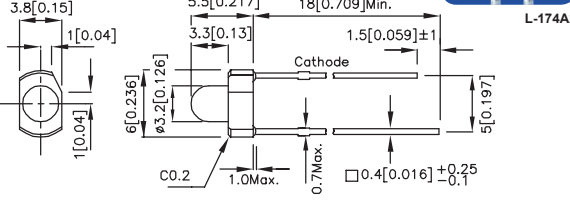
Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-4060ID	GaAsP/GaP	617	red diffused	4	8	70°	<p>1.8mm Round</p>
L-4060SRD	GaAlAs	640	red diffused	*30	*80	70°	
L-4060YD	GaAsP/GaP	588	yellow diffused	4	8	70°	
L-4060GD	GaP	568	green diffused	6	12	70°	
L-4060ZGD	InGaN	525	green diffused	*500	*1000	120°	
L-4060QBC-D	InGaN	465	water clear	*400	*700	30°	
L-908A8ID	GaAsP/GaP	617	red diffused	6	15	60°	<p>T-1 (3mm) Round</p>
L-908A8SURTK	AlGaInP	630	red transparent	*200	*400	50°	
L-908A8SYTK	AlGaInP	590	yellow transparent	*400	*900	50°	
L-908A8GD	GaP	568	green diffused	10	25	60°	
L-1154ID	GaAsP/GaP	617	red diffused	6	15	60°	<p>T-1 (3mm) Round</p>
L-1154SURDK	AlGaInP	630	red diffused	*120	*200	60°	
L-1154YD	GaAsP/GaP	588	yellow diffused	5	15	60°	
L-1154GD	GaP	568	green diffused	10	25	60°	
L-1154CGDK	AlGaInP	570	green diffused	*80	*120	60°	
L-1154QBDZ1C/ATBS	InGaN	465	water clear	*1000	*2000	20°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.01")$  unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.




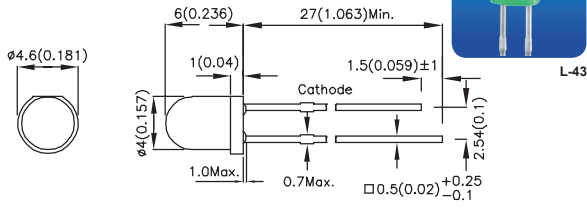

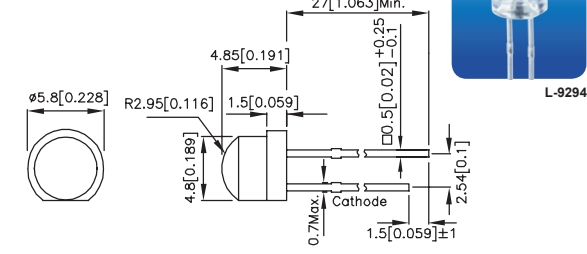

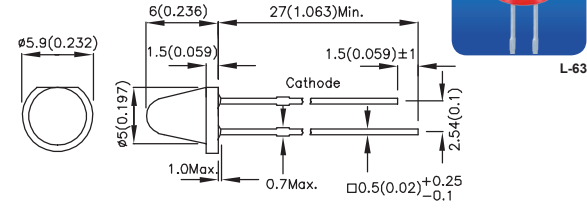

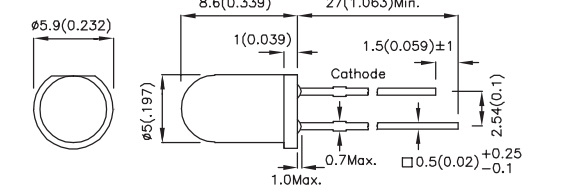
ROUND LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
L-132XID	GaAsP/GaP	617	red diffused	8	16	60°	T-1 (3mm) Round  
L-132XKD	GaAsP/GaP	625	red diffused	5	12	60°	
L-132XSURTK	AlGaInP	630	red transparent	*200	*400	50°	
L-132XSED-E	AlGaInP	621	orange diffused	*120	*300	60°	
L-132XND	GaAsP/GaP	602	orange diffused	8	16	60°	
L-132XNT	GaAsP/GaP	602	orange transparent	10	20	50°	
L-132XYD	GaAsP/GaP	588	yellow diffused	6	15	60°	
L-132XYT	GaAsP/GaP	588	yellow transparent	10	20	50°	
L-132XGD	GaP	568	green diffused	15	25	60°	
L-132XSGC	GaP	568	water clear	*40	*80	50°	
L-132XPGC-20MAV	GaP	557	water clear	*15	*35	50°	
L-132XQBC-D	InGaN	465	water clear	*750	*1300	30°	
L-7104ID	GaAsP/GaP	617	red diffused	10	20	50°	
L-7104EC	GaAsP/GaP	617	water clear	12	30	30°	
L-7104ND	GaAsP/GaP	602	orange diffused	10	20	50°	
L-7104NC	GaAsP/GaP	602	water clear	12	30	30°	
L-7104YD	GaAsP/GaP	588	yellow diffused	8	15	50°	
L-7104GD	GaP	568	green diffused	10	25	50°	
L-7104GC	GaP	568	water clear	12	40	30°	
L-7104PGD	GaP	557	green diffused	3	8	50°	
L-7104SRD-F	GaAlAs	640	red diffused	*90	*160	50°	
L-7104SRC-D	GaAlAs	640	water clear	*120	*240	30°	
L-7104SURDK	AlGaInP	630	red diffused	*120	*240	50°	
L-7104SURC-E	AlGaInP	630	water clear	*500	*1100	30°	
L-7104SECK	AlGaInP	601	water clear	*700	*1400	30°	
L-7104SEC-H	AlGaInP	625	water clear	*1200	*2200	30°	
L-7104SYCK	AlGaInP	590	water clear	*650	*1150	30°	
L-7104SYC-H	AlGaInP	589	water clear	*1100	*2000	30°	
L-7104SGD	GaP	568	green diffused	*18	*40	50°	
L-7104SGC	GaP	568	water clear	*30	*60	30°	
L-7104CGCK	AlGaInP	570	water clear	*150	*330	30°	
L-7104ZGC	InGaN	525	water clear	*6000	*9000	30°	
L-7104QBC-D	InGaN	465	water clear	*900	*1600	30°	
L-7104VBC-D	InGaN	470	water clear	*2100	*3700	30°	
L-34ID	GaAsP/GaP	617	red diffused	6	15	60°	T-1 (3mm) Round  
L-34SURDK	AlGaInP	630	red diffused	*100	*250	60°	
L-34YD	GaAsP/GaP	588	yellow diffused	8	15	60°	
L-34SYCK	AlGaInP	590	water clear	*400	*700	50°	
L-34GD	GaP	568	green diffused	12	25	60°	
L-34CGCK	AlGaInP	570	water clear	*150	*400	50°	
L-34ZGC	InGaN	525	water clear	*4200	*6500	30°	
L-34QBC-D	InGaN	465	water clear	*800	*1500	30°	
L-174A2IT	GaAsP/GaP	617	red transparent	10	40	35°	3.2mm Round  
L-174A2GT	GaP	568	green transparent	20	70	35°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.

## ROUND LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
L-43HD	GaP	635	red diffused	0.8	2	80°	4mm Round  
L-43ID	GaAsP/GaP	617	red diffused	4	10	80°	
L-43YD	GaAsP/GaP	588	yellow diffused	5	10	80°	
L-43GD	GaP	568	green diffused	8	16	80°	
L-9294SURCK	AlGaInP	630	water clear	*100	*180	70°	5mm Round  
L-63ID	GaAsP/GaP	617	red diffused	8	12	60°	T-1 3/4 (5mm) Round  
L-63IT	GaAsP/GaP	617	red transparent	10	30	30°	
L-63GD	GaP	568	green diffused	8	16	60°	
L-7113ID	GaAsP/GaP	617	red diffused	18	40	30°	T-1 3/4 (5mm) Round  
L-7113ED	GaAsP/GaP	617	orange diffused	18	40	30°	
L-7113EC	GaAsP/GaP	617	water clear	40	100	20°	
L-7113YD	GaAsP/GaP	588	yellow diffused	10	25	30°	
L-7113YC	GaAsP/GaP	588	water clear	30	80	20°	
L-7113GD	GaP	568	green diffused	15	30	30°	
L-7113GC	GaP	568	water clear	25	80	20°	
L-7113SRD-D	GaAlAs	640	red diffused	*120	*210	30°	
L-7113SRD-E	GaAlAs	640	red diffused	*180	*250	30°	
L-7113SURDK	AlGaInP	630	red diffused	*300	*650	30°	
L-7113SURCK	AlGaInP	630	water clear	*900	*1300	20°	
L-7113SEC-H	AlGaInP	625	water clear	*3100	*5000	20°	
L-7113SEC-J3	AlGaInP	625	water clear	*5000	*8000	20°	
L-7113SYCK	AlGaInP	590	water clear	*1800	*3000	20°	
L-7113SYC-H	AlGaInP	589	water clear	*2700	*4000	20°	
L-7113SYC-J3	AlGaInP	590	water clear	*4200	*6000	20°	
L-7113CGCK	AlGaInP	570	water clear	*400	*700	20°	
L-7113ZGC	InGaN	525	water clear	*8000	*14000	20°	
L-7113QBC-D	InGaN	465	water clear	*1900	*3600	20°	
L-7113VBC-D	InGaN	470	water clear	*3500	*6000	20°	

**NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.

ROUND LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
L-7143SURCK	AlGaInP	630	water clear	*500	*900	30°	T-1 3/4 (5mm) Round 
L-7143SEC-H	AlGaInP	625	water clear	*1600	*3200	30°	
L-7143SGC	GaP	568	water clear	*120	*300	30°	
L-7143QBC-D	InGaN	465	water clear	*600	*1100	30°	
L-7143VBC-D	InGaN	470	water clear	*1500	*3000	30°	
L-1503ID	GaAsP/GaP	617	red diffused	12	40	30°	T-1 3/4 (5mm) Round 
L-1503SRC-J4	AlGaInP	640	water clear	*1900	*3000	20°	
L-1503SRD	GaAlAs	640	red diffused	*120	*260	30°	
L-1503SURDK	AlGaInP	630	red diffused	*400	*700	30°	
L-1503YD	GaAsP/GaP	588	yellow diffused	15	30	30°	
L-1503GD	GaP	568	green diffused	15	30	30°	
L-1503CGDK	AlGaInP	570	green diffused	*100	*200	30°	
L-793ID	GaAsP/GaP	617	red diffused	*30	*60	30°	8mm Round 
L-793SRC-J4	AlGaInP	640	water clear	*1300	*2000	15°	
L-793SRD-D	GaAlAs	640	red diffused	*60	*140	30°	
L-793SRD-E	GaAlAs	640	red diffused	*140	*180	30°	
L-793SURDK	AlGaInP	630	red diffused	*120	*300	30°	
L-793YD	GaAsP/GaP	588	yellow diffused	*20	*50	30°	
L-793GD	GaP	568	green diffused	*30	*60	30°	
L-813ID	GaAsP/GaP	617	red diffused	*36	*80	30°	10mm Round 
L-813SRD-C	GaAlAs	640	red diffused	*80	*160	30°	
L-813SRC-J4	AlGaInP	640	water clear	*1800	*3000	15°	
L-813SRD-E	GaAlAs	640	red diffused	*120	*200	30°	
L-813YD	GaAsP/GaP	588	yellow diffused	*18	*50	30°	
L-813GD	GaP	568	green diffused	*20	*60	30°	
L-813QBD-D	InGaN	465	blue diffused	*180	*400	20°	
DLA/6ID	GaAsP/GaP	617	red diffused	6	17	120°	20mm 
DLC/6ID	GaAsP/GaP	617	red diffused	6	17	120°	
DLA/6SRD	GaAlAs	640	red diffused	*55	*100	120°	
DLC/6SRD	GaAlAs	640	red diffused	*55	*100	120°	
DLA/6YD	GaAsP/GaP	588	yellow diffused	6	17	120°	
DLC/6YD	GaAsP/GaP	588	yellow diffused	6	17	120°	
DLA/6GD	GaP	568	green diffused	6	15	120°	
DLC/6GD	GaP	568	green diffused	6	15	120°	
DLA/6SGD	GaP	568	green diffused	*12	*31	120°	
DLC/6SGD	GaP	568	green diffused	*12	*31	120°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is ±0.25mm(0.01") unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

## OVAL LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-5603SURCK	AlGaInP	630	water clear	400	800	70°(H) 30°(V)	5.2mm Oval 
L-5603SIDL/SD-J3	AlGaInP	625	red semi diffused	800	1400	80°(H) 40°(V)	
L-5603SYCK	AlGaInP	590	water clear	1000	1600	70°(H) 30°(V)	
L-5603ZGT	InGaN	525	green transparent	2800	4100	50°(H) 30°(V)	
L-5603QBC-D	InGaN	465	water clear	380	700	50°(H) 30°(V)	

## FLAT TOP LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-1034IDT	GaAsP/GaP	617	red diffused	2	4	140°	2mm Flat Top 
L-1034YDT	GaAsP/GaP	588	yellow diffused	1.8	3	140°	
L-1034GDT	GaP	568	green diffused	2	5	140°	
L-13ID	GaAsP/GaP	617	red diffused	6	12	50°	2mm Flat Top 
L-13YD	GaAsP/GaP	588	yellow diffused	4	8	50°	
L-13GD	GaP	568	green diffused	6	12	50°	

## RECTANGULAR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-2774ID	GaAsP/GaP	617	red diffused	2	6	70°	1.75mm x 3.9mm Rectangular 
L-2774ND	GaAsP/GaP	602	orange diffused	2	6	70°	
L-2774YD	GaAsP/GaP	588	yellow diffused	2	5	70°	
L-2774GD	GaP	568	green diffused	4	12	70°	

### NOTES:

- All dimensions are in millimeters(inches).
- Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.
- Luminous intensity value is traceable to CIE127-2007 standards.

RECTANGULAR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-144HDT	GaP	635	red diffused	0.2	0.5	140°	1.9mm x 3.9mm Rectangular 
L-144IDT	GaAsP/GaP	617	red diffused	1.2	3	140°	
L-144YDT	GaAsP/GaP	588	yellow diffused	1.5	4	140°	
L-144GDT	GaP	568	green diffused	2	6	140°	
L-914IDT	GaAsP/GaP	617	red diffused	1.2	4	140°	2mm x 3mm Rectangular 
L-914SURDTK	AlGaInP	630	red diffused	*20	*50	140°	
L-914SYCK	AlGaInP	590	water clear	*70	*150	130°	
L-914GDT	GaP	568	green diffused	3	6	140°	
L-914CGDTK	AlGaInP	570	green diffused	*15	*35	140°	2mm x 3mm Rectangular 
L-91A7YDT	GaAsP/GaP	588	yellow diffused	1.5	4	140°	
L-91A7GDT	GaP	568	green diffused	4	7	140°	
L-91A7CGDTK	AlGaInP	570	green diffused	*12	*40	140°	
L-169XID	GaAsP/GaP	617	red diffused	8	14	60°	2mm x 3mm Rectangular 
L-169XYD	GaAsP/GaP	588	yellow diffused	5	10	60°	
L-169XSYDK	AlGaInP	590	yellow diffused	*300	*500	60°	
L-169XGD	GaP	568	green diffused	8	15	60°	
L-169XCGDK	AlGaInP	570	green diffused	*50	*120	60°	2mm x 5mm Rectangular 
L-9763PBDT-A	InGaN	465	blue diffused	*20	*55	120°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01")$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.



## RECTANGULAR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ /2	Dimensions
				Min.	Typ.		
L-103IDT	GaAsP/GaP	617	red diffused	1.2	3	140°	2mm x 5mm Rectangular 
L-103SRDT	GaAlAs	640	red diffused	*12	*30	140°	
L-103YDT	GaAsP/GaP	588	yellow diffused	1.5	4	140°	
L-103GDT	GaP	568	green diffused	2	5	140°	
L-113IDT	GaAsP/GaP	617	red diffused	2	4	140°	2mm x 5mm Rectangular 
L-113YDT	GaAsP/GaP	588	yellow diffused	1.2	4	140°	
L-113SYDTK	AlGaInP	590	yellow diffused	*70	*120	140°	
L-113GDT	GaP	568	green diffused	1.2	5	140°	
L-113CGDTK	AlGaInP	570	green diffused	*10	*30	140°	
L-1553IDT	GaAsP/GaP	617	red diffused	2	5	140°	5mm x 5mm Square 
L-1553YDT	GaAsP/GaP	588	yellow diffused	1.5	5	140°	
L-1553SYDTK	AlGaInP	590	yellow diffused	*80	*180	140°	
L-1553GDT	GaP	568	green diffused	3	6	140°	

## CYLINDRICAL LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 $\theta$ /2	Dimensions
				Min.	Typ.		
L-47XEC	GaAsP/GaP	617	water clear	4	8	100°	T-1 (3mm) Cylindrical 
L-47XYT	GaAsP/GaP	588	yellow transparent	2	4	100°	
L-47XSYCK	AlGaInP	590	water clear	*40	*100	100°	
L-47XZGC	InGaN	525	water clear	*180	*500	100°	

### NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.
3. Luminous intensity value is traceable to CIE127-2007 standards.

CYLINDRICAL LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-424HDT	GaP	635	red diffused	0.2	0.6	140°	T-1 (3mm) Cylindrical 
L-424IDT	GaAsP/GaP	617	red diffused	1.2	4	140°	
L-424YDT	GaAsP/GaP	588	yellow diffused	1.2	3	140°	
L-424GDT	GaP	568	green diffused	2	6	140°	
L-483IDT	GaAsP/GaP	617	red diffused	1.2	4	140°	T-1 3/4 (5mm) Cylindrical 
L-483YDT	GaAsP/GaP	588	yellow diffused	1.2	3	140°	
L-483GDT	GaP	568	green diffused	1.5	3	140°	

MULTI-COLOR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-937IID	GaAsP/GaP	617	red diffused	2	4	60°	T-1 (3mm) Round 
	GaAsP/GaP	617		2	4		
L-937YYD	GaAsP/GaP	588	yellow diffused	3	9	60°	
	GaAsP/GaP	588		3	9		
L-937GGD	GaP	568	green diffused	4	10	60°	
	GaP	568		4	10		
L-937EGW	GaAsP/GaP	617	white diffused	4	10	60°	
	GaP	568		6	14		
L-937EYW	GaAsP/GaP	617	white diffused	4	10	60°	
	GaAsP/GaP	588		4	8		
L-937GYW	GaP	568	white diffused	6	14	60°	
	GaAsP/GaP	588		4	8		
L-115VEGW-BBTS	GaAsP/GaP	617	white diffused	8	20	60°	T-1 (3mm) Round 
	GaP	568		10	30		
L-115VEYW-BBTS	GaAsP/GaP	617	white diffused	8	20	60°	
	GaAsP/GaP	588		10	24		
L-115VGyw-BBTS	GaP	568	white diffused	10	30	60°	
	GaAsP/GaP	588		10	24		

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

## MULTI-COLOR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions		
				Min.	Typ.				
L-115WEGW	GaAsP/GaP	617	white diffused	12	20	60°	<p>T-1 (3mm) Round</p> <p>L-115W</p>		
	GaP	568		20	40				
L-115WEYW	GaAsP/GaP	617	white diffused	12	20	60°			
	GaAsP/GaP	588		10	20				
L-115WGYW	GaP	568	white diffused	15	40	60°			
	GaAsP/GaP	588		10	20				
L-3VEGW	GaAsP/GaP	617	white diffused	10	30	60°		<p>T-1 (3mm) Round</p> <p>L-3V</p>	
	GaP	568		20	40				
L-3VGYW	GaP	568	white diffused	15	40	60°			
	GaAsP/GaP	588		10	15				
L-3VSURKCGKC	AlGaInP	630	water clear	100	400	30°			
	AlGaInP	570		200	400				
L-7113SRSGW	GaAlAs	640	white diffused	40	100	35°	<p>T-1 3/4 (5mm) Round</p> <p>L-7113</p>		
	GaP	568		20	60				
L-57IID	GaAsP/GaP	617	red diffused	4	12	30°			<p>T-1 3/4 (5mm) Round</p> <p>L-57</p>
L-57GGD	GaAsP/GaP	617		green diffused	8				
L-57SRSRD	GaP	568	red diffused		8	20			
	GaP	568		30	60				
L-57EGW	GaAlAs	640	white diffused	30	60				
	GaAlAs	640		30	60				
L-57EYW	GaAsP/GaP	617	white diffused	6	14				
	GaP	568		12	30				
L-57GYW	GaAsP/GaP	617	white diffused	6	14				
	GaAsP/GaP	588		4	10				
L-57SURKSGW	GaP	568	white diffused	12	30				
	GaAsP/GaP	588		4	10				
L-57SURKSGW	AlGaInP	630	white diffused	80	150				
	GaP	568		12	30				

NOTES:  
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 2. Tolerance is  $\pm 0.25\text{mm}$  (0.01") unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.




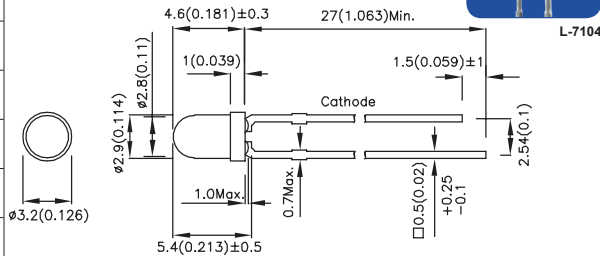

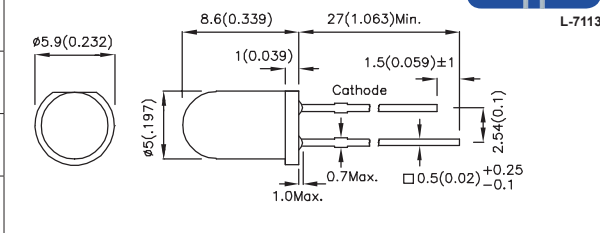
## MULTI-COLOR LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 $\theta$ /2	Dimensions
				Min.	Typ.		
L-117EGWT	GaAsP/GaP	617	white diffused	1.2	4	140°	2mm x 5mm Rectangular 
	GaP	568		2	6		
L-117SURKCGKWT	AlGaInP	630	white diffused	30	50	140°	
	AlGaInP	570		15	25		
L-119EGWT	GaAsP/GaP	617	white diffused	4	10	140°	2mm x 5mm Rectangular 
	GaP	568		3	9		
L-119SURKCGKWT	AlGaInP	630	white diffused	30	55	140°	
	AlGaInP	570		15	30		
L-489EGWT	GaAsP/GaP	617	white diffused	3	6	140°	T-1 3/4 (5mm) Cylindrical 
	GaP	568		4	10		


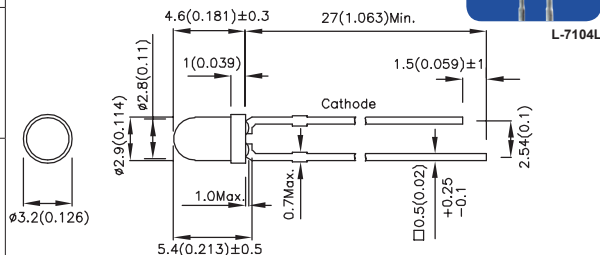

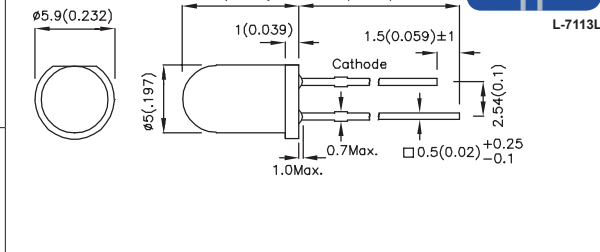
NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.



RESISTOR LED

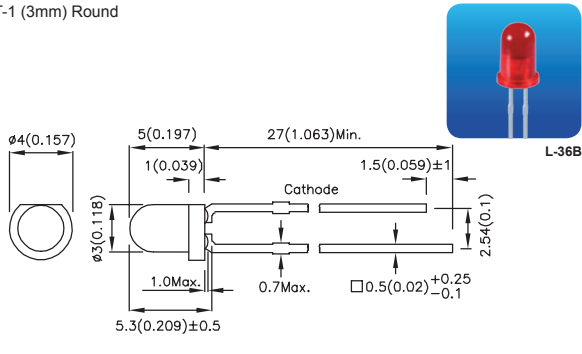
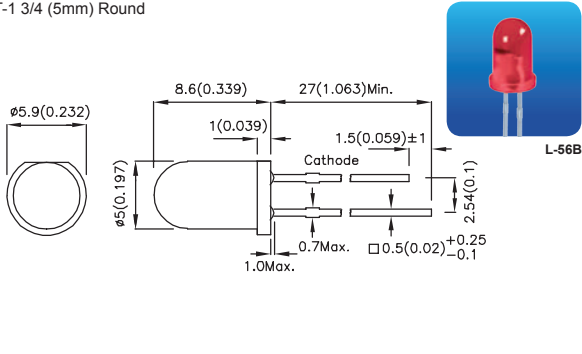
Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd)		Viewing Angle 2 $\theta$ 1/2	Dimensions
				*V=12V Min.	V=5V **V=14V Typ.		
L-7104ID-5V	GaAsP/GaP	617	red diffused	6	14	50°	T-1 (3mm) Round  
L-7104ID-12V	GaAsP/GaP	617	red diffused	*2	*5	50°	
L-7104YD-5V	GaAsP/GaP	588	yellow diffused	7	15	50°	
L-7104YD-12V	GaAsP/GaP	588	yellow diffused	*5	*10	50°	
L-7104GD-5V	GaP	568	green diffused	12	25	50°	
L-7104GD-12V	GaP	568	green diffused	6*	*15	50°	
L-7104SRD-5V	GaAlAs	640	red diffused	25	50	50°	
L-7104SRD-14V	GaAlAs	640	red diffused	**20	**40	50°	
L-7113ID-5V	GaAsP/GaP	617	red diffused	12	25	30°	T-1 3/4 (5mm) Round  
L-7113ID-12V	GaAsP/GaP	617	red diffused	*10	*20	30°	
L-7113YD-5V	GaAsP/GaP	588	yellow diffused	10	22	30°	
L-7113YD-12V	GaAsP/GaP	588	yellow diffused	*8	*15	30°	
L-7113GD-5V	GaP	568	green diffused	15	25	30°	
L-7113GD-12V	GaP	568	green diffused	*8	*20	30°	

LOW CURRENT LED

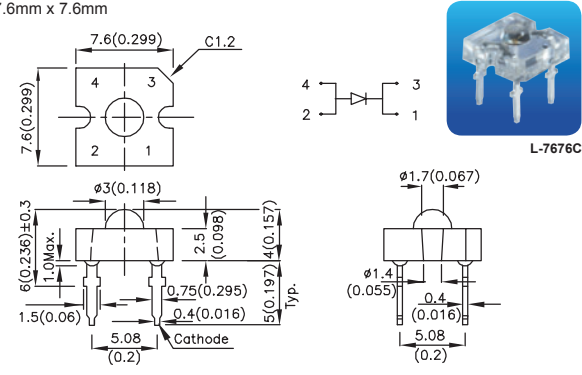
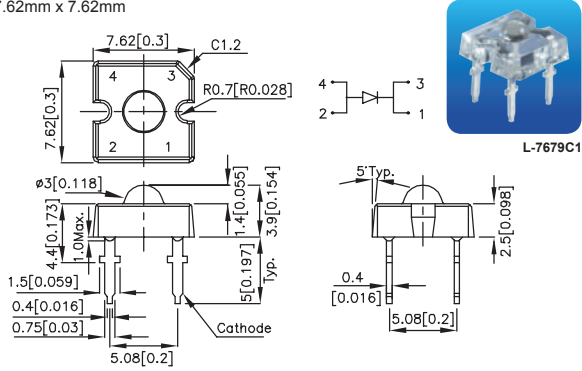
Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-7104LID	GaAsP/GaP	617	red diffused	0.2	0.6	50°	T-1 (3mm) Round  
L-7104LYD	GaAsP/GaP	588	yellow diffused	0.7	1.5	50°	
L-7104LGD	GaP	568	green diffused	1	2	50°	
L-7113LID	GaAsP/GaP	617	red diffused	0.7	2	30°	T-1 3/4 (5mm) Round  
L-7113LYD	GaAsP/GaP	588	yellow diffused	1	3	30°	
L-7113LGD	GaP	568	green diffused	1.2	3	30°	

NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

## BLINKING LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) V=9V		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-36BID	GaAsP/GaP	617	red diffused	6	15	60°	T-1 (3mm) Round 
L-36BSRD-B	GaAlAs	640	red diffused	40	100	60°	
L-56BHD	GaP	635	red diffused	1.2	4	60°	T-1 3/4 (5mm) Round 
L-56BID	GaAsP/GaP	617	red diffused	12	25	60°	
L-56BSRD-B	GaAlAs	640	red diffused	30	70	60°	

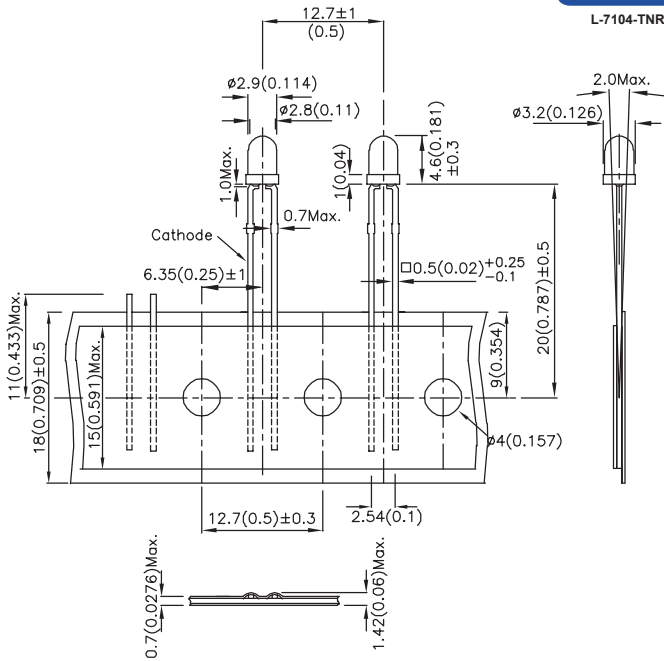
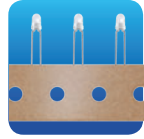
## SUPER FLUX LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @20mA*30mA**70mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
L-7676CSEC-H	AlGaInP	625	water clear	400	800	70°	7.6mm x 7.6mm 
L-7676CSYC	AlGaInP	590	water clear	200	400	70°	
L-7679C1SURC-G	AlGaInP	630	water clear	**500	**1000	70°	7.62mm x 7.62mm 
L-7679C1SEC-H	AlGaInP	625	water clear	**1000	**2300	70°	
L-7679C1SYC-H	AlGaInP	589	water clear	**2300	**4200	70°	
L-7679C1QBC-D	InGaN	465	water clear	*360	*800	40°	

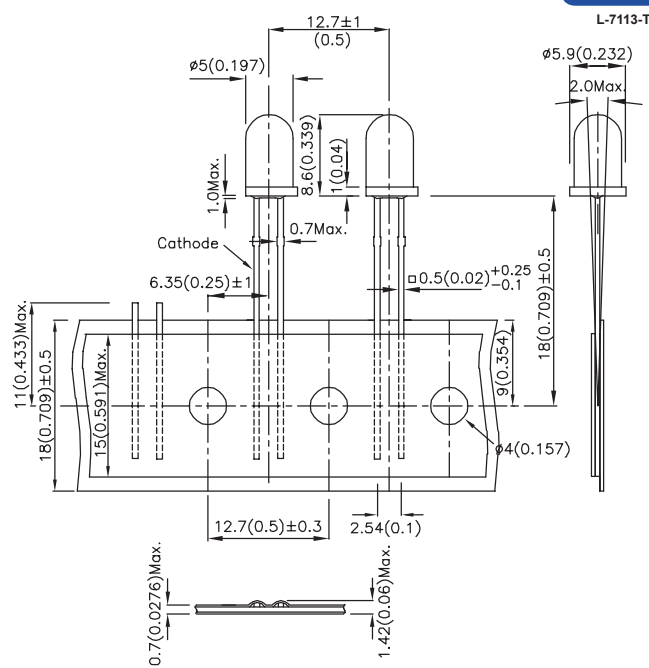
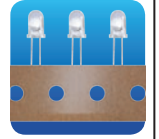
NOTES:  
 1. All dimensions are in millimeters(inches).  
 2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  unless otherwise noted.  
 3. Luminous intensity value is traceable to CIE127-2007 standards.

TAPE AND REEL SELECTIONS

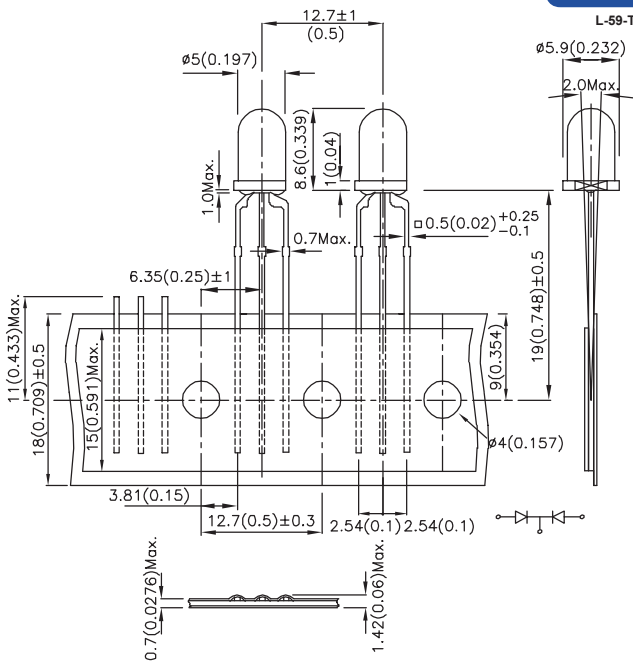
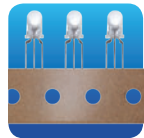
L-7104-TNR2.54



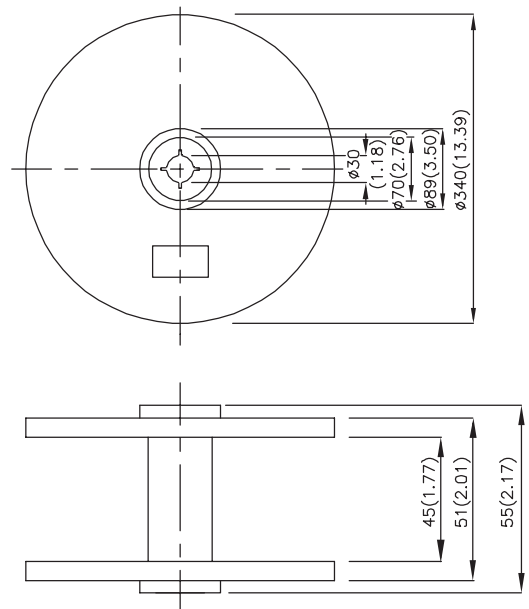
L-7113-TNR2.54



L-59-TNR2.54



REEL DIMENSION



- NOTES:
1. All dimensions are in millimeters(inches).
  2. Tolerance is ±0.25mm(0.01") unless otherwise noted.
  3. Luminous intensity value is traceable to CIE127-2007 standards.