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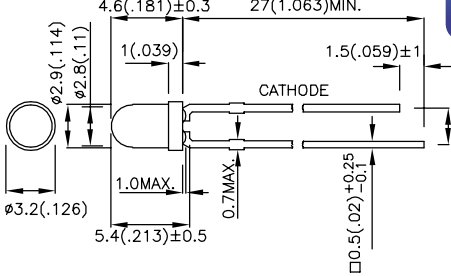
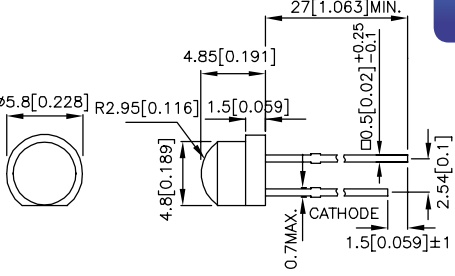
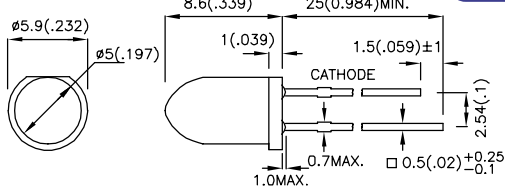
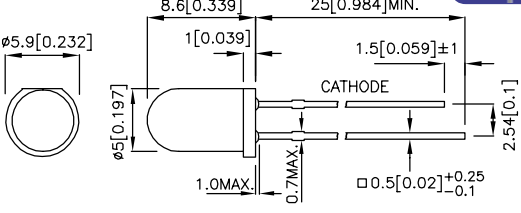
Kingbright

Optoelectronic Components

THROUGH-HOLE LED

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DEGRADATION RESISTANT BLUE

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-10934VBC/DS-D	InGaN	470	water clear	2300	4000	20°	T-1 (3mm) Round  
L-19294VBC/DS-D	InGaN	470	water clear	400	800	60°	5mm Round  
L-19804VBC/DS-D	InGaN	470	water clear	6000	9000	12°	T-1 3/4 (5mm) Round  
L-17114VBC/DS-D	InGaN	470	water clear	6000	9000	15°	T-1 3/4 (5mm) Round  

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

SUBMINIATURE LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimension
				Min.	Typ.		
KM2520EC01	GaAsP/GaP	617	water clear	20	50	20°	Subminiature Solid State Lamps
KM2520SURCK01	AlGaInP	630	water clear	500	1800	20°	
KM2520SECK01	AlGaInP	601	water clear	1000	1800	20°	
KM2520YC01	GaAsP/GaP	588	water clear	20	50	20°	
KM2520SYCK01	AlGaInP	590	water clear	1300	2300	20°	
KM2520SGC01	GaP	568	water clear	40	90	20°	
KM2520CGCK01	AlGaInP	570	water clear	400	800	20°	
KM2520ZGC01	InGaIn	525	water clear	1900	3000	20°	
KM2520ZGC-G01	InGaIn	525	water clear	3600	5000	20°	
KM2520QBC-D01	InGaIn	465	water clear	300	900	20°	
KM2520QBC-G01	InGaIn	465	water clear	700	1300	20°	
KM2520VBC-D01	InGaIn	470	water clear	1000	1600	20°	

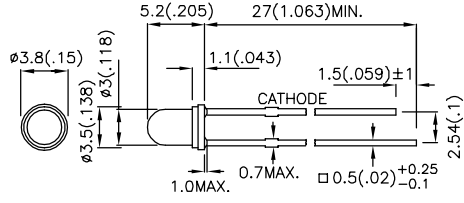
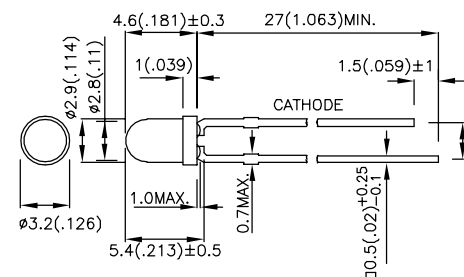
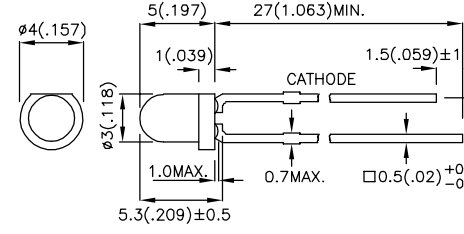
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-4060ID	GaAsP/GaP	617	red diffused	4	8	70°	1.8mm Round
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	InGaIn	525	green diffused	*300	*900	70°	
L-4060QBC-D	InGaIn	465	water clear	*400	*700	30°	
L-908A8ID	GaAsP/GaP	617	red diffused	6	15	80°	T-1 (3mm) Round
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	80°	
L-1154ID	GaAsP/GaP	617	red diffused	6	15	60°	T-1 (3mm) Round
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-1154ZGW	InGaIn	525	white diffused	*1800	*2300	60°	
L-1154QBW-D	InGaIn	465	white diffused	*600	*1100	60°	

NOTES:

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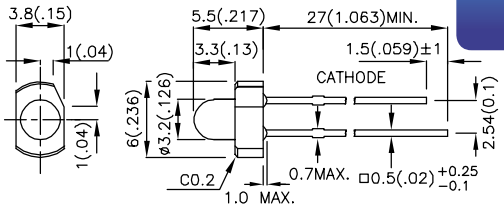
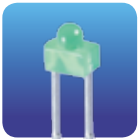
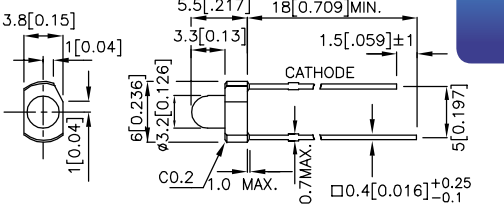
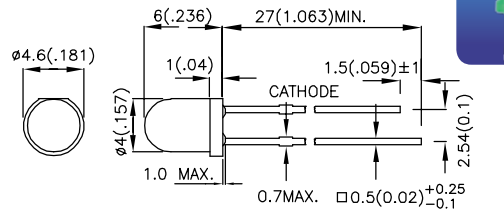
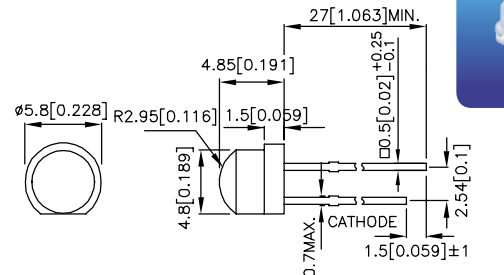
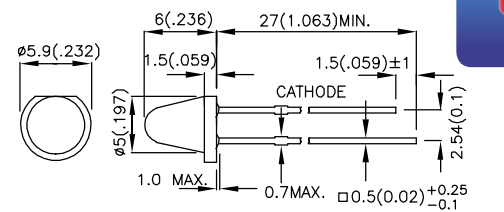
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-132XID	GaAsP/GaP	617	red diffused	8	16	60°	T-1 (3mm) Round  
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-132XSYCK	AlGaInP	590	water clear	400	700	50°	
L-132XGD	GaP	568	green diffused	15	25	60°	
L-132XGC	GaP	568	water clear	20	40	50°	
L-132XPGC	GaP	557	water clear	6	15	50°	
L-132XQBC-D	InGaN	465	water clear	*750	*1300	50°	
L-7104ID	GaAsP/GaP	617	red diffused	10	20	40°	T-1 (3mm) Round  
L-7104EC	GaAsP/GaP	617	water clear	12	30	34°	
L-7104ND	GaAsP/GaP	602	orange diffused	10	20	40°	
L-7104NC	GaAsP/GaP	602	water clear	12	25	34°	
L-7104YD	GaAsP/GaP	588	yellow diffused	8	15	40°	
L-7104GD	GaP	568	green diffused	10	25	40°	
L-7104GC	GaP	568	water clear	12	40	34°	
L-7104PGD	GaP	557	green diffused	3	8	40°	
L-7104SRD-F	GaAlAs	640	red diffused	*90	*160	40°	
L-7104SRC-D	GaAlAs	640	water clear	*120	*240	34°	
L-7104SURDK	AlGaInP	630	red diffused	*120	*240	40°	
L-7104SURC-E	AlGaInP	630	water clear	*560	*900	34°	
L-7104SECK	AlGaInP	601	water clear	*300	*700	34°	
L-7104SEC-H	AlGaInP	625	water clear	*500	*1000	34°	
L-7104SYCK	AlGaInP	590	water clear	*650	*1150	34°	T-1 (3mm) Round  
L-7104SYC-H	AlGaInP	589	water clear	*1100	*2000	34°	
L-7104SGD	GaP	568	green diffused	*18	*40	40°	
L-7104SGC	GaP	568	water clear	*30	*60	34°	
L-7104CGCK	AlGaInP	570	water clear	*150	*330	34°	
L-7104ZGC	InGaN	525	water clear	*6000	*9000	34°	
L-7104QBC-D	InGaN	465	water clear	*900	*1600	20°	
L-7104VBC-D	InGaN	470	water clear	*2100	*3700	20°	
L-34ID	GaAsP/GaP	617	red diffused	6	15	60°	
L-34SURDK	AlGaInP	630	red diffused	*100	*250	60°	
L-34SURCK	AlGaInP	630	water clear	*120	*300	50°	
L-34SEDK	AlGaInP	601	orange diffused	*250	*500	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	50°	
L-34QBC-D	InGaN	465	water clear	*800	*1500	25°	
L-34VBC-D	InGaN	470	water clear	*1900	*3000	25°	

NOTES:

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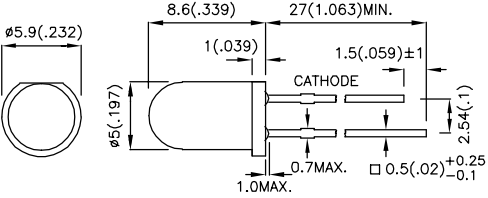
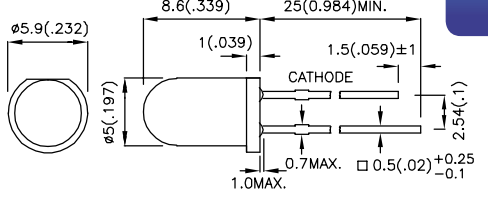
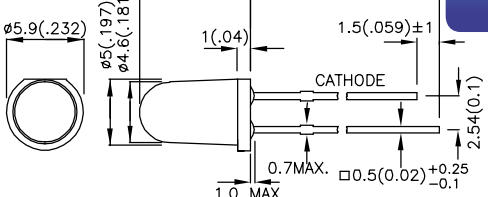
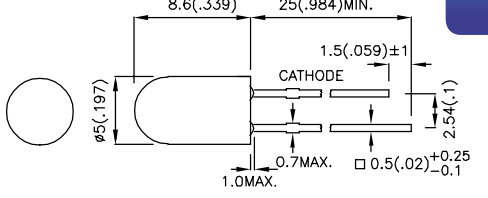
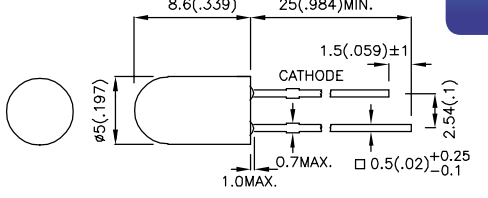
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-174XIT	GaAsP/GaP	617	red transparent	8	20	35°	3.2mm Round  
L-174XSRT	GaAlAs	640	red transparent	*80	*160	35°	
L-174XYT	GaAsP/GaP	588	yellow transparent	8	20	35°	
L-174XGT	GaP	568	green transparent	15	30	35°	
L-174A2IT	GaAsP/GaP	617	red transparent	10	40	35°	3.2mm Round  
L-174A2YT	GaAsP/GaP	588	yellow transparent	15	30	35°	
L-174A2GT	GaP	568	green transparent	20	70	35°	
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-9294QBC-D	InGaN	465	water clear	*200	*500	60°	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-63YD	GaAsP/GaP	588	yellow diffused	5	10	60°	
L-63YT	GaAsP/GaP	588	yellow transparent	20	70	30°	
L-63GD	GaP	568	green diffused	8	16	60°	
L-63GT	GaP	568	green transparent	30	80	30°	

NOTES:

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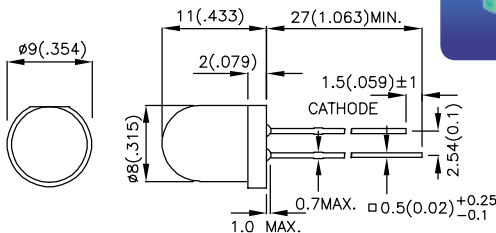
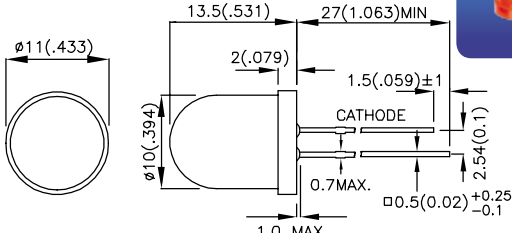
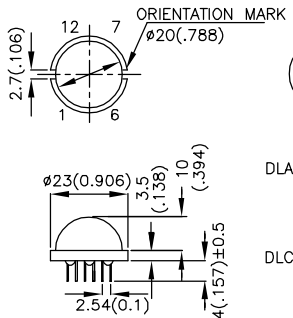
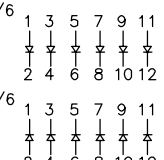
ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-7113ID	GaAsP/GaP	617	red diffused	18	40	30°	T-1 3/4 (5mm) Round  L-7113 
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	*1700	*2700	16°	
L-7113VBC-D	InGaN	470	water clear	*3500	*6000	20°	
L-7143SURCK	AlGaInP	630	water clear	*500	*900	30°	T-1 3/4 (5mm) Round  L-7143 
L-7143SEC-H	AlGaInP	625	water clear	*1600	*3200	30°	
L-7143SYC-H	AlGaInP	589	water clear	*1700	*2900	30°	
L-7143SGC	GaP	568	water clear	*80	*150	30°	
L-7143ZGC	InGaN	525	water clear	*4800	*9500	30°	
L-7143QBC-D	InGaN	465	water clear	*600	*1100	30°	T-1 3/4 (5mm) Round  L-1513 
L-7143VBC-D	InGaN	470	water clear	*1500	*3000	30°	
L-1513EC	GaAsP/GaP	617	water clear	25	60	20°	
L-1513SURC-E	AlGaInP	630	water clear	*1000	*1500	20°	
L-1513YT	GaAsP/GaP	588	yellow transparent	30	50	20°	
L-1513YC	GaAsP/GaP	588	water clear	30	50	20°	T-1 3/4 (5mm) Round  L-1503 
L-1513GT	GaP	568	green transparent	30	60	20°	
L-1513GC	GaP	568	water clear	30	60	20°	
L-1503ID	GaAsP/GaP	617	red diffused	12	40	60°	
L-1503EC	GaAsP/GaP	617	water clear	25	50	30°	
L-1503SRD	GaAlAs	640	red diffused	*120	*260	60°	T-1 3/4 (5mm) Round  L-1503 
L-1503SURDK	AlGaInP	630	red diffused	*400	*700	60°	
L-1503YD	GaAsP/GaP	588	yellow diffused	15	30	60°	
L-1503YC	GaAsP/GaP	588	water clear	20	50	30°	
L-1503SYDK	AlGaInP	590	yellow diffused	*650	*1200	60°	
L-1503GD	GaP	568	green diffused	15	30	60°	
L-1503GC	GaP	568	water clear	50	100	30°	
L-1503CGDK	AlGaInP	570	green diffused	*100	*200	60°	

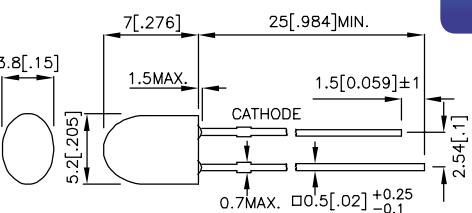
NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

ROUND LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-793ID	GaAsP/GaP	617	red diffused	*30	*60	30°	8mm Round  
L-793SRD-C	GaAlAs	640	red diffused	*40	*120	30°	
L-793SRD-D	GaAlAs	640	red diffused	*60	*140	30°	
L-793SRD-E	GaAlAs	640	red diffused	*140	*180	30°	
L-793ED	GaAsP/GaP	617	orange diffused	*30	*60	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-813SRD-D	GaAlAs	640	red diffused	*110	*180	30°	
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	InGaP	465	blue diffused	*180	*400	20°	
DLA/6ID	GaAsP/GaP	617	red diffused	20	49	120°	20mm  
DLC/6ID	GaAsP/GaP	617	red diffused	20	49	120°	
DLA/6SRD	GaAlAs	640	red diffused	*300	*470	120°	
DLC/6SRD	GaAlAs	640	red diffused	*300	*470	120°	
DLA/6YD	GaAsP/GaP	588	yellow diffused	20	48	120°	
DLC/6YD	GaAsP/GaP	588	yellow diffused	20	48	120°	
DLA/6GD	GaP	568	green diffused	20	45	120°	
DLC/6GD	GaP	568	green diffused	20	45	120°	
DLA/6SGD	GaP	568	green diffused	*55	*100	120°	
DLC/6SGD	GaP	568	green diffused	*55	*100	120°	

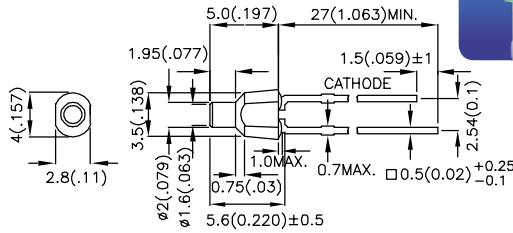
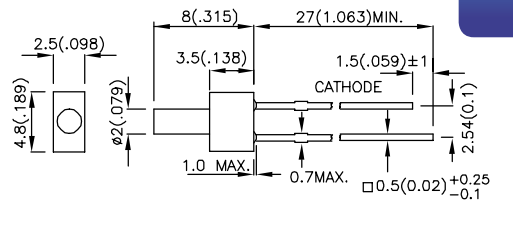
OVAL LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-5603SURCK	AlGaInP	630	water clear	400	800	70°(H) 30°(V)	5.2 x 3.8mm Oval  
L-5603SIDL/SD-H	AlGaInP	625	red semi diffused	400	900	80°(H) 40°(V)	
L-5603SIDL/SD-J3	AlGaInP	625	red semi diffused	800	1400	80°(H) 40°(V)	
L-5603SYDL/SD-H	AlGaInP	589	yellow semi diffused	700	1300	80°(H) 40°(V)	
L-5603ZGDL/SD-G	InGaP	525	green semi diffused	2300	5000	80°(H) 40°(V)	
L-5603QBDEL/SD-G	InGaP	465	blue semi diffused	650	1100	80°(H) 40°(V)	

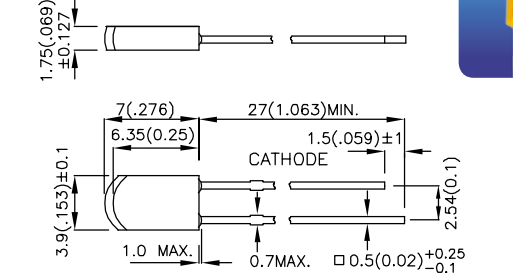
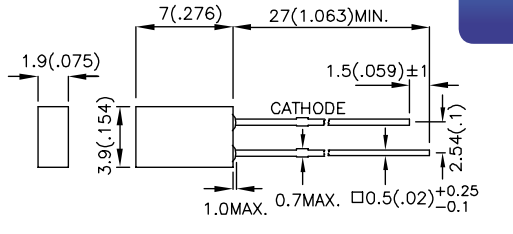
NOTES:

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2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

FLAT TOP LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 θ /2	Dimension
				Min.	Typ.		
L-1034IDT	GaAsP/GaP	617	red diffused	2	4	70°	2mm Flat Top  
L-1034YDT	GaAsP/GaP	588	yellow diffused	1.8	3	70°	
L-1034GDT	GaP	568	green diffused	2	5	70°	
L-13ID	GaAsP/GaP	617	red diffused	6	12	70°	2mm Flat Top  
L-13YD	GaAsP/GaP	588	yellow diffused	4	8	70°	
L-13GD	GaP	568	green diffused	6	12	70°	

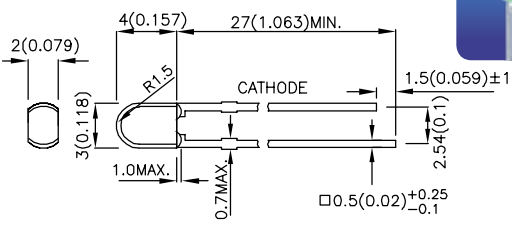
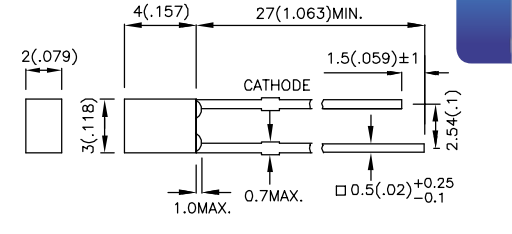
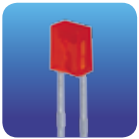
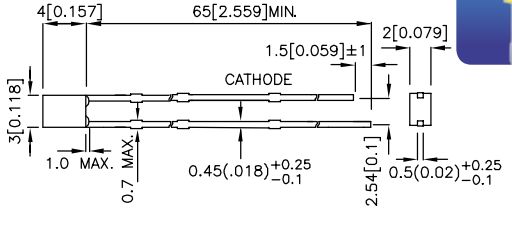
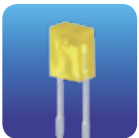
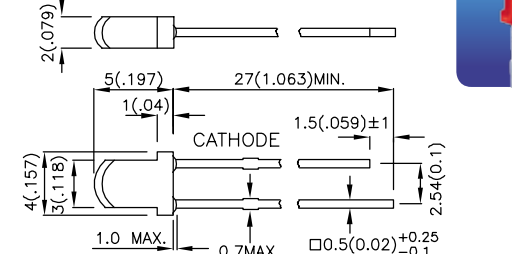
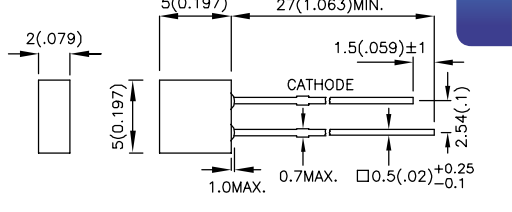
RECTANGULAR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA		Viewing Angle 2 θ /2	Dimension
				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°	
L-144HDT	GaP	635	red diffused	0.2	0.5	110°	1.9mm x 3.9mm Rectangular  
L-144IDT	GaAsP/GaP	617	red diffused	1.2	3	110°	
L-144YDT	GaAsP/GaP	588	yellow diffused	1.5	4	110°	
L-144GDT	GaP	568	green diffused	2	6	110°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

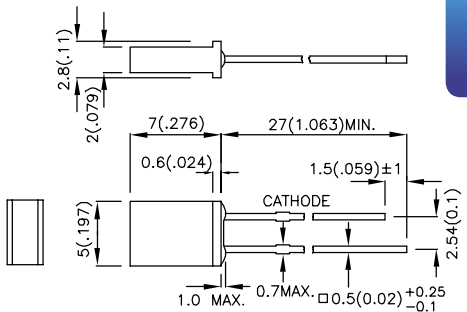
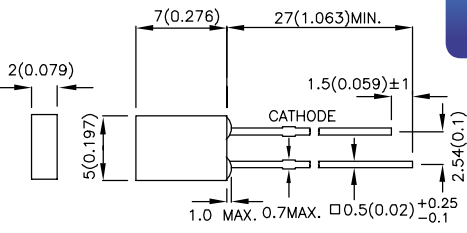
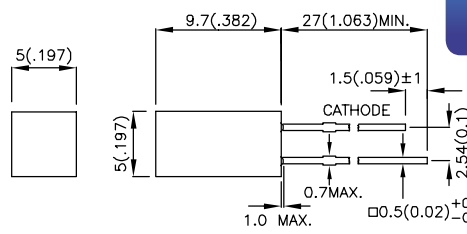
RECTANGULAR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-2914ID	GaAsP/GaP	617	red diffused	2	5	50°	2mm x 3mm Rectangular  
L-2914YD	GaAsP/GaP	588	yellow diffused	5	12	50°	
L-2914SYCK	AlGaInP	590	water clear	*300	*600	45°	
L-2914GD	GaP	568	green diffused	6	15	50°	
L-914HDT	GaP	635	red diffused	0.1	0.4	100°	2mm x 3mm Rectangular  
L-914IDT	GaAsP/GaP	617	red diffused	1.2	4	100°	
L-914SURDK	AlGaInP	630	red diffused	*20	*50	100°	
L-914SYCK	AlGaInP	590	water clear	*70	*150	100°	
L-914GDT	GaP	568	green diffused	3	6	100°	2mm x 3mm Rectangular  
L-91A7IDT	GaAsP/GaP	617	red diffused	1.2	4	100°	
L-91A7YDT	GaAsP/GaP	588	yellow diffused	1.5	4	100°	
L-91A7GDT	GaP	568	green diffused	4	7	100°	
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	80°	

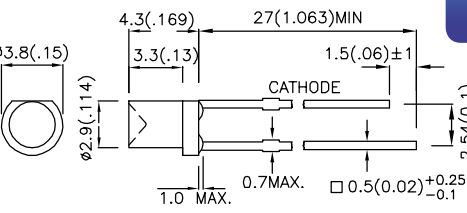
NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

RECTANGULAR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-103IDT	GaAsP/GaP	617	red diffused	1.2	3	110°	2mm x 5mm Rectangular  
L-103EDT	GaAsP/GaP	617	orange diffused	1.2	3	110°	
L-103YDT	GaAsP/GaP	588	yellow diffused	1.5	4	110°	
L-103GDT	GaP	568	green diffused	2	5	110°	
L-113IDT	GaAsP/GaP	617	red diffused	2	4	110°	2mm x 5mm Rectangular  
L-113EDT	GaAsP/GaP	617	orange diffused	2	4	110°	
L-113YDT	GaAsP/GaP	588	yellow diffused	1.2	4	110°	
L-113SYDTK	AlGaInP	590	yellow diffused	*70	*120	110°	
L-113GDT	GaP	568	green diffused	1.2	5	110°	5mm x 5mm Square  
L-1553IDT	GaAsP/GaP	617	red diffused	2	5	110°	
L-1553YDT	GaAsP/GaP	588	yellow diffused	1.5	5	110°	
L-1553SYDTK	AlGaInP	590	yellow diffused	*80	*180	110°	
L-1553GDT	GaP	568	green diffused	3	6	110°	

CYLINDRICAL LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-47XEC	GaAsP/GaP	617	water clear	4	8	130°	T-1 (3mm) Cylindrical  
L-47XYT	GaAsP/GaP	588	yellow transparent	2	4	130°	
L-47XSYCK	AlGaInP	590	water clear	*40	*100	130°	
L-47XZGC	InGaN	525	water clear	*180	*500	130°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

CYLINDRICAL LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-424HDT	GaP	635	red diffused	0.2	0.6	100°	T-1 (3mm) Cylindrical
L-424IDT	GaAsP/GaP	617	red diffused	1.2	4	100°	
L-424YDT	GaAsP/GaP	588	yellow diffused	1.2	3	100°	
L-424GDT	GaP	568	green diffused	2	6	100°	
L-483IDT	GaAsP/GaP	617	red diffused	1.2	4	100°	T-1 3/4 (5mm) Cylindrical
L-483YDT	GaAsP/GaP	588	yellow diffused	1.2	3	100°	
L-483GDT	GaP	568	green diffused	1.5	3	100°	
L-483ZGDT	InGaN	525	green diffused	*100	*250	100°	

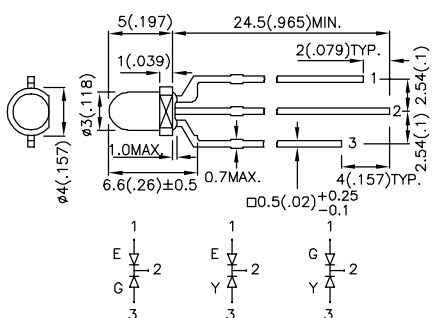
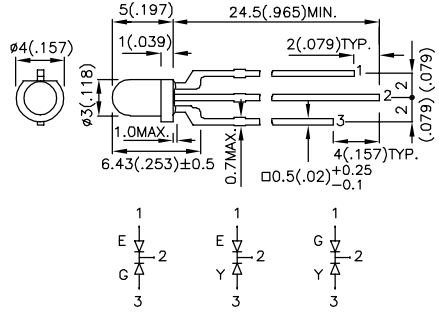
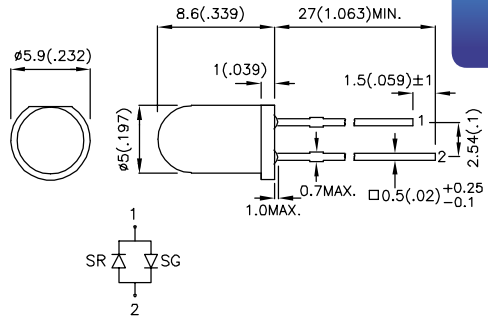
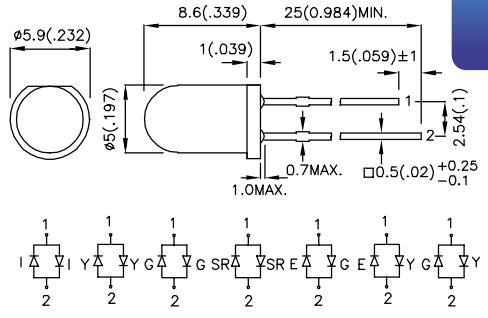
MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-937IID	GaAsP/GaP	617	red diffused	2	4	60°	T-1 (3mm) Round L-937
	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	GaAsP/GaP	617	white diffused	8	20	60°	T-1 (3mm) Round L-115V
	GaP	568		10	30		
L-115VEYW	GaAsP/GaP	617	white diffused	8	20	60°	
	GaAsP/GaP	588		10	24		
L-115VGyw	GaP	568	white diffused	10	30	60°	
	GaAsP/GaP	588		10	24		

NOTES:

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2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimension	
				Min.	Typ.			
L-115WEGW	GaAsP/GaP	617	white diffused	12	20	60°	T-1 (3mm) Round   L-115W	
	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°		T-1 (3mm) Round   L-3V
	GaP	568		20	40			
L-3VEYW	GaAsP/GaP	617	white diffused	10	30	60°		
	GaAsP/GaP	588		10	15			
L-3VGYW	GaP	568	white diffused	15	40	60°		
	GaAsP/GaP	588		10	15			
L-7113SRSGW	GaAlAs	640	white diffused	40	100	35°	T-1 3/4 (5mm) Round   L-7113	
	GaP	568		20	60			
L-57IID	GaAsP/GaP	617	red diffused	4	12	60°		T-1 3/4 (5mm) Round   L-57
	GaAsP/GaP	617		4	12			
L-57YYD	GaAsP/GaP	588	yellow diffused	6	12	60°		
	GaAsP/GaP	588		6	12			
L-57GGD	GaP	568	green diffused	8	20	60°		
	GaP	568		8	20			
L-57SRSRD	GaAlAs	640	red diffused	30	60	60°		
	GaAlAs	640		30	60			
L-57EGW	GaAsP/GaP	617	white diffused	6	14	60°		
	GaP	568		12	30			
L-57EYW	GaAsP/GaP	617	white diffused	6	14	60°		
	GaAsP/GaP	588		4	10			
L-57GYW	GaP	568	white diffused	12	30	60°		
	GaAsP/GaP	588		4	10			

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimension
				Min.	Typ.		
L-59EGW	GaAsP/GaP	617	white diffused	20	40	60°	T-1 3/4 (5mm) Round Dimensions: 8.6[0.339], 24.5[0.964]MIN., 1[0.039], 2[0.079]TYP., 1.0MAX., 10.35[.407]±1, 0.7MAX., 4[0.157]TYP., 2.54[0.1] [0.1]. Pins: 1, 2, 3. Configurations: SURK, CGK, SG, E, Y, G.
L-59EGW-CA	GaP	568		20	60		
L-59EYW	GaAsP/GaP	617	white diffused	1.2	3	60°	
	GaP	568		3	8		
L-59GYW	GaAsP/GaP	617	white diffused	20	40	60°	
	GaP	588		20	40		
L-59SURKCGKW	AlGaInP	630	white diffused	80	200	60°	
	AlGaInP	570		80	180		
L-59EGC	GaAsP/GaP	617	water clear	50	100	24°	
	GaP	568		50	120		
L-59EYC	GaAsP/GaP	617	water clear	50	100	24°	
	GaP	588		40	80		
L-59GYC	GaAsP/GaP	568	water clear	50	120	24°	
	GaP	588		40	80		
L-59SURKSGC	AlGaInP	630	water clear	600	1200	24°	
	GaP	568		50	120		
L-154A4 SURKBBDZGC	AlGaInP	630	water clear	150	300	50°	T-1 3/4 (5mm) Full color Dimensions: 8.6[.339], 24.5[.965]+3/-0, 1[.039], 2.5[.098]MIN., 1.0MAX., 0.7MAX., 1[.039]TYP., 2.5[.098]MIN., 1.27[.05]TYP., 1.27[.05]TYP., 1.27[.05]TYP. Pins: 1, 2, 3, 4. Configurations: SURK, QB-D, ZG, SUR-E, QB-F, ZG-E.
	InGaN	465		300	700		
	InGaN	525		1000	1700		
L-154A4 SURKBBDZGW	AlGaInP	630	white diffused	100	200	60°	
	InGaN	465		120	300		
	InGaN	525		600	1300		
L-154A4 SUREQBFZGEC	AlGaInP	630	water clear	200	400	50°	
	InGaN	465		400	900		
	InGaN	525		2200	3600		
L-154A4 SUREQBFZGEW	AlGaInP	630	white diffused	120	250	60°	
	InGaN	465		300	500		
	InGaN	525		900	1700		
L-799EGW	GaAsP/GaP	617	white diffused	20	40	50°	8mm Round Dimensions: 9[0.354], 11[0.433], 24.5[0.965]MIN., 2[0.079], 2[0.079]TYP., 1.0 MAX., 12.45[0.49]±1, 0.7 MAX., 4[0.157]TYP., 2.54[0.1] [0.1]. Pins: 1, 2, 3. Configurations: E, G, SURK, CGK.
	GaP	568		20	50		
L-799SURKCGKW	AlGaInP	630	white diffused	150	300	50°	
	AlGaInP	570		55	130		
L-819IID	GaAsP/GaP	617	red diffused	10	30	50°	10mm Round Dimensions: 11[.433], 13.5[.531], 24.5[0.965]MIN., 2[0.079], 2[0.079]TYP., 1.0 MAX., 15[.591]±1, 0.7 MAX., 4[0.157]TYP., 2.54[0.1] [0.1]. Pins: 1, 2, 3. Configurations: E, G, SURK, CGK.
	GaAsP/GaP	617		8	20		
L-819EGW	GaAsP/GaP	617	white diffused	30	60	50°	
	GaP	568		15	50		
L-819SURKCGKW	AlGaInP	630	white diffused	120	350	50°	
	AlGaInP	570		55	130		

NOTES:

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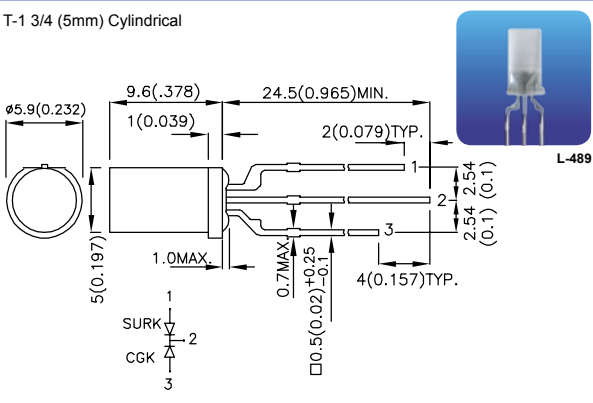
MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-91A6GNWT	GaP	568	white diffused	4	8	110°	2mm x 3mm Rectangular
	GaAsP/GaP	602		4	8		
L-91A6YGT	GaAsP/GaP	588	white diffused	2	4	110°	
	GaP	568		4	8		
L-113SRSGWT	GaAlAs	640	white diffused	12	30	110°	2mm x 5mm Rectangular
	GaP	568		3	8		
L-117EGWT	GaAsP/GaP	617	white diffused	1.2	4	110°	2mm x 5mm Rectangular
	GaP	568		2	6		
L-117EYWT	GaAsP/GaP	617	white diffused	1.2	4	110°	
	GaAsP/GaP	588		2	4		
L-117GYWT	GaP	568	white diffused	2	6	110°	
	GaAsP/GaP	588		2	4		
L-119EGWT	GaAsP/GaP	617	white diffused	4	10	110°	2mm x 5mm Rectangular
	GaP	568		3	9		
L-119SURKCGKWT	AlGaInP	630	white diffused	30	55	110°	
	AlGaInP	570		15	30		

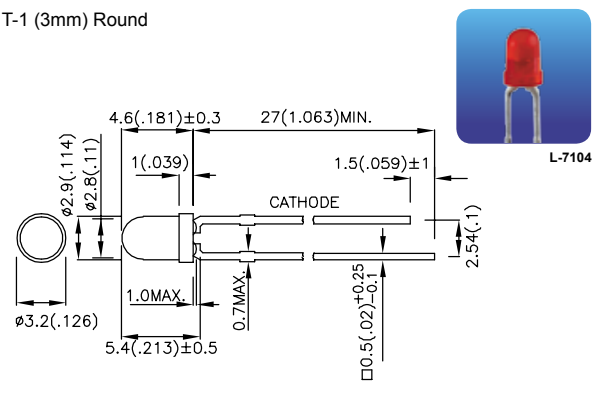
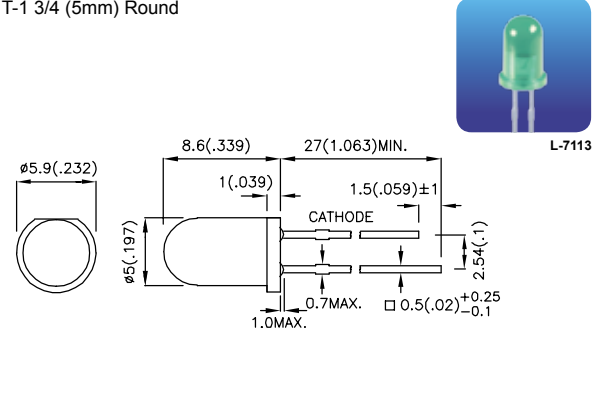
NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

MULTI-COLOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-489SURKCGKC	AlGaInP	630	water clear	55	100	80°	T-1 3/4 (5mm) Cylindrical 
	AlGaInP	570		40	90		

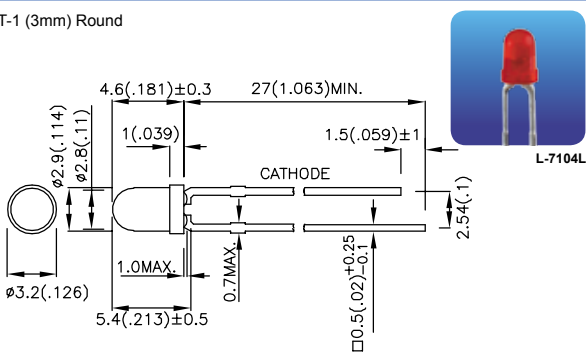
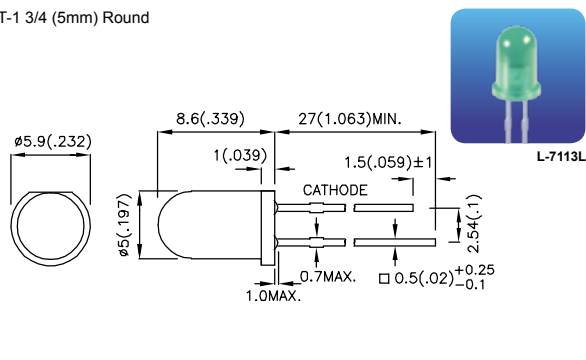
RESISTOR LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) V=5V *V=12V **V=14V		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-7104ID-5V	GaAsP/GaP	617	red diffused	6	14	40°	T-1 (3mm) Round 
L-7104ID-12V	GaAsP/GaP	617	red diffused	*2	*5	40°	
L-7104ID-14V	GaAsP/GaP	617	red diffused	**5	**10	40°	
L-7104YD-5V	GaAsP/GaP	588	yellow diffused	7	15	40°	
L-7104YD-12V	GaAsP/GaP	588	yellow diffused	*5	*10	40°	
L-7104YD-14V	GaAsP/GaP	588	yellow diffused	**6	**11	40°	
L-7104GD-5V	GaP	568	green diffused	12	25	40°	
L-7104GD-12V	GaP	568	green diffused	*6	*15	40°	
L-7104GD-14V	GaP	568	green diffused	**8	**20	40°	
L-7104SRD-5V	GaAlAs	640	red diffused	25	50	40°	
L-7104SRD-14V	GaAlAs	640	red diffused	**20	**40	40°	
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-7113ID-14V	GaAsP/GaP	617	red diffused	**10	**22	30°	
L-7113YD-5V	GaAsP/GaP	588	yellow diffused	10	22	30°	
L-7113YD-12V	GaAsP/GaP	588	yellow diffused	*8	*15	30°	
L-7113YD-14V	GaAsP/GaP	588	yellow diffused	**8	**20	30°	
L-7113GD-5V	GaP	568	green diffused	15	25	30°	
L-7113GD-12V	GaP	568	green diffused	*8	*20	30°	
L-7113GD-14V	GaP	568	green diffused	**10	**22	30°	

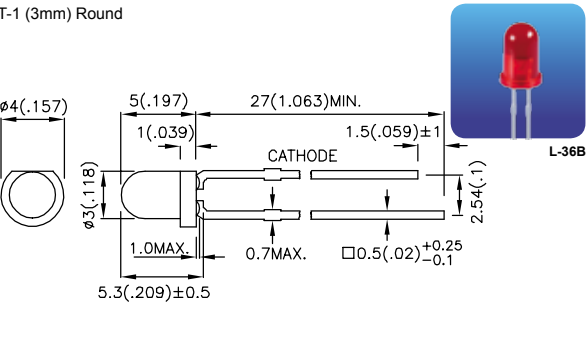
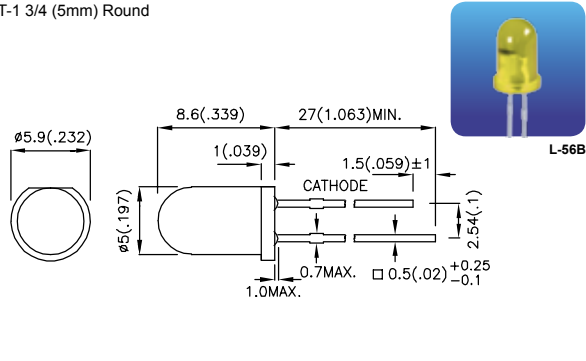
NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

LOW CURRENT LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 θ /2	Dimension
				Min.	Typ.		
L-7104LID	GaAsP/GaP	617	red diffused	0.2	0.6	40°	T-1 (3mm) Round 
L-7104LYD	GaAsP/GaP	588	yellow diffused	0.7	1.5	40°	
L-7104LGD	GaP	568	green diffused	1	2	40°	
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°	

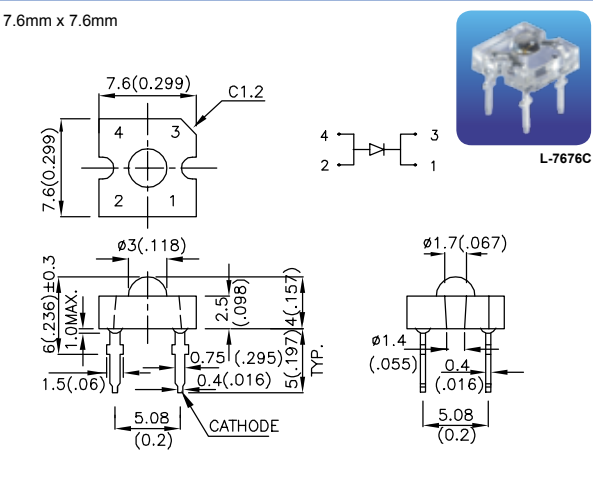
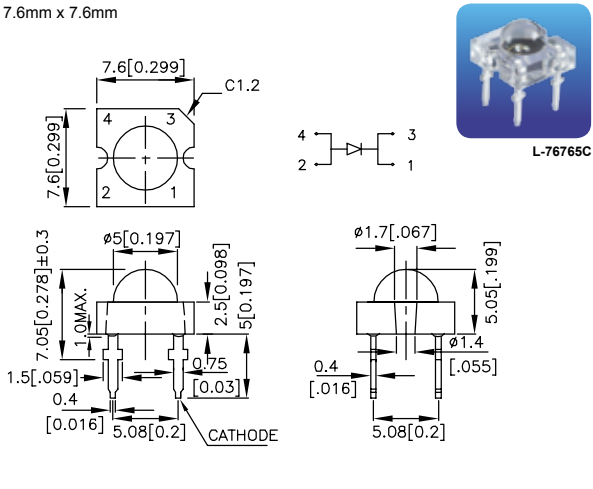
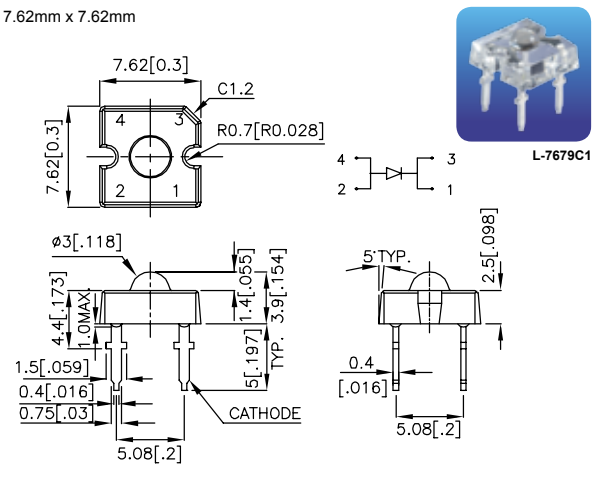
BLINKING LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) V=9V		Viewing Angle 2 θ /2	Dimension
				Min.	Typ.		
L-36BHD	GaP	635	red diffused	0.6	1.8	60°	T-1 (3mm) Round 
L-36BID	GaAsP/GaP	617	red diffused	6	15	60°	
L-36BSRD-B	GaAlAs	640	red diffused	40	100	60°	
L-36BYD	GaAsP/GaP	588	yellow diffused	8	15	60°	
L-36BGD	GaP	568	green diffused	12	25	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°	
L-56BYD	GaAsP/GaP	588	yellow diffused	12	20	60°	
L-56BGD	GaP	568	green diffused	15	30	60°	

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.

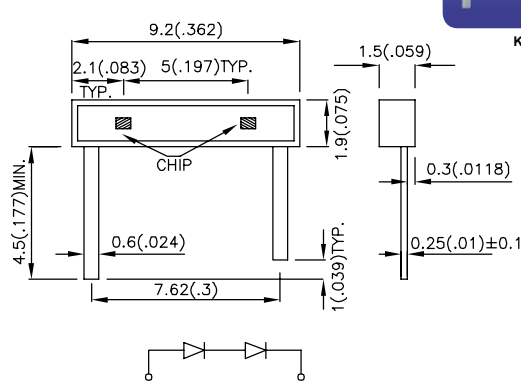
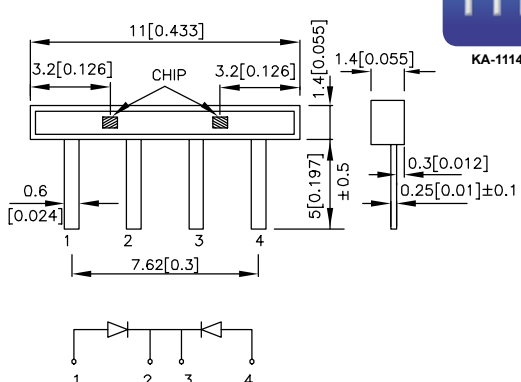
SUPER FLUX LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimension
				Min.	Typ.		
L-7676CSURC-G	AlGaInP	630	water clear	120	200	70°	7.6mm x 7.6mm  L-7676
L-7676CSEC-H	AlGaInP	625	water clear	400	800	70°	
L-7676CSYC-H	AlGaInP	589	water clear	400	600	70°	
L-7676CZGC-G	InGaN	525	water clear	1900	2500	70°	
L-7676CQBC-G	InGaN	465	water clear	380	780	70°	
L-76765CSURC-G	AlGaInP	630	water clear	120	200	70°	7.6mm x 7.6mm  L-76765C
L-76765CSEC-H	AlGaInP	625	water clear	300	600	70°	
L-76765CSYC-H	AlGaInP	589	water clear	200	500	70°	
L-76765CZGC-G	InGaN	525	water clear	1300	2200	70°	
L-76765CQBC-G	InGaN	465	water clear	280	410	70°	
L-7679C1SURC-G	AlGaInP	630	water clear	500	1000	70°	7.62mm x 7.62mm  L-7679C1
L-7679C1SEC-H	AlGaInP	625	water clear	1000	2300	70°	
L-7679C1SYC-H	AlGaInP	589	water clear	2300	4200	70°	
L-7679C1ZGC	InGaN	525	water clear	*600	*1200	70°	
L-7679C1ZGC-G	InGaN	525	water clear	*2700	*3600	70°	
L-7679C1QBC-D	InGaN	465	water clear	*360	*800	70°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

SIDE VIEW

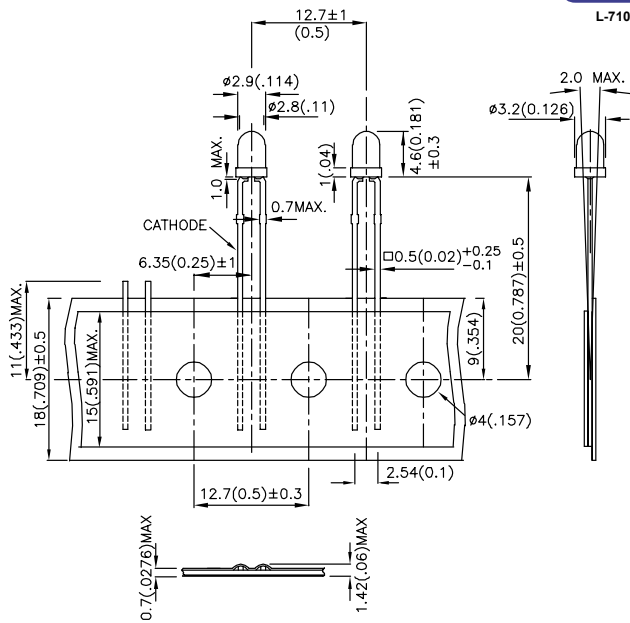
Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ /2	Dimension
				Min.	Typ.		
KA-9219/2SURSK	AlGaInP	630	water clear	80	150	100°	9.2mm x 1.9mm  KA-9219/2
KA-9219/2SESK	AlGaInP	601	water clear	200	300	100°	
KA-9219/2SYSK	AlGaInP	590	water clear	120	250	100°	
KA-9219/2CGSK	AlGaInP	570	water clear	55	120	100°	
KA-9219/2ZGS	InGaIn	525	water clear	500	900	100°	
KA-9219/2QBS-D	InGaIn	465	water clear	120	250	100°	
KA-1114/2SURSK-CC-L5	AlGaInP	630	water clear	55	100	120°	11mm x 1.4mm  KA-1114/2-CC-L5
KA-1114/2SESK-CC-L5	AlGaInP	601	water clear	120	200	120°	
KA-1114/2SYSK-CC-L5	AlGaInP	590	water clear	120	200	120°	
KA-1114/2CGSK-CC-L5	AlGaInP	570	water clear	40	70	120°	
KA-1114/2ZGS-CC-L5	InGaIn	525	water clear	400	700	120°	
KA-1114/2QBS-D-CC-L5	InGaIn	465	water clear	80	130	120°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise noted.

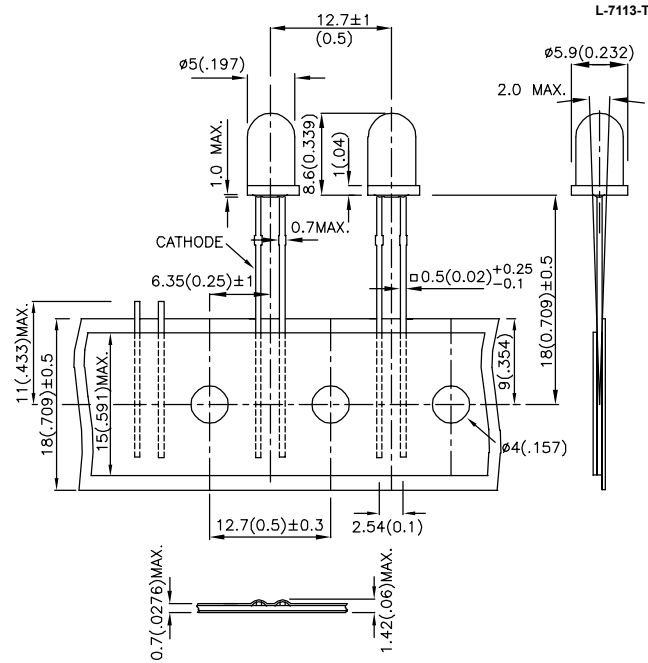
TAPE AND REEL SELECTIONS

L-7104-TNR2.54



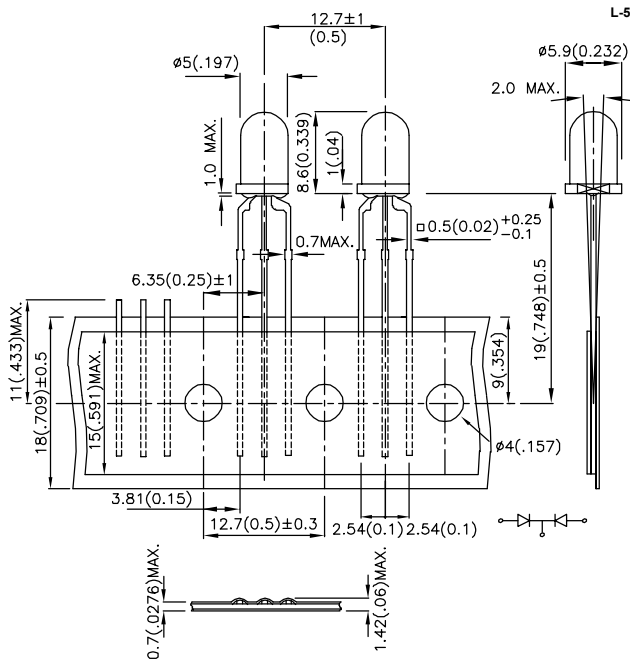
L-7104-TNR2.54

L-7113-TNR2.54



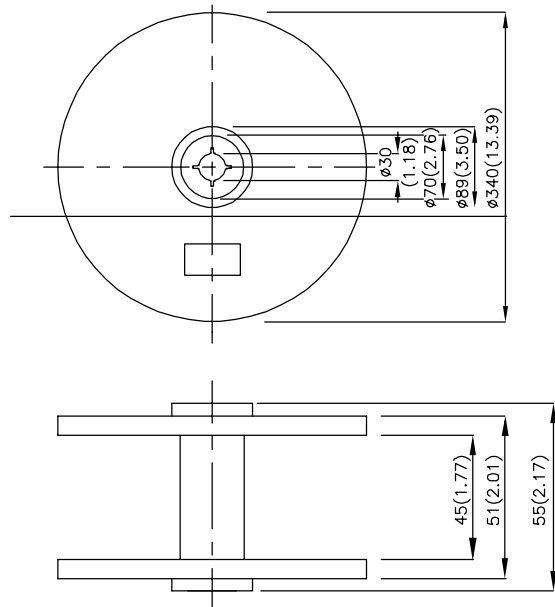
L-7113-TNR2.54

L-59-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.

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