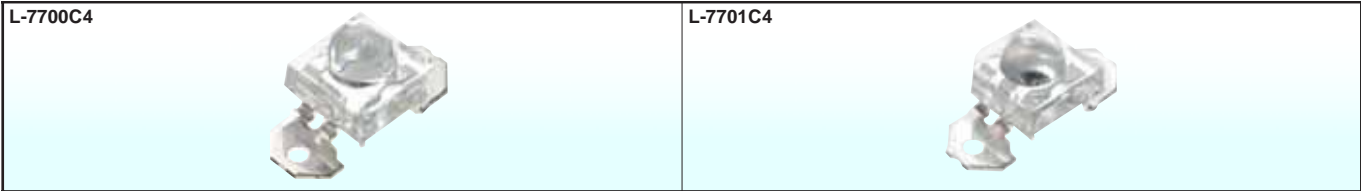


Kingbright

Optoelectronic Components

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P 3	SNAPLED
P 4	INFRARED EMITTING DIODES
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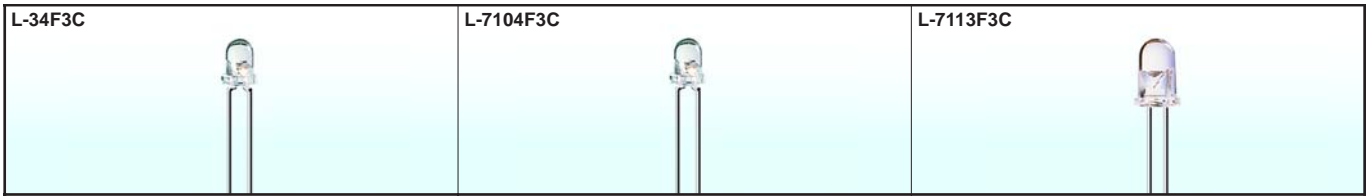
2007-2009



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @70mA *50mA		Viewing Angle 201/2	Dimension
				Min.	Typ.		
L-7700C4SEC-H	InGaAlP	630	water clear	6700	12000	30°	7.62mm x 7.62mm
L-7700C4SYC-H	InGaAlP	589	water clear	3300	5000	30°	
L-7700C4SURC-G	InGaAlP	630	water clear	4700	7000	30°	
L-7700C4PBC-Z-DTS	InGaN	465	water clear	*3800	*8000	25°	
L-7700C4VGC-Z	InGaN	535	water clear	*8000	*18000	30°	
L-7701C4SEC-H	InGaAlP	630	water clear	5700	10000	50°	7.62mm x 7.62mm
L-7701C4SYC-H	InGaAlP	589	water clear	2200	3700	50°	
L-7701C4SURC-G	InGaAlP	630	water clear	2800	4100	50°	
L-7701C4PBC-Z-DTS	InGaN	465	water clear	*1800	*3500	50°	
L-7701C4VGC-Z	InGaN	535	water clear	*5700	*9500	50°	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ P (nm)	Lens Type	Po (mW/sr) @20mA *50mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		
L-34F3C	GaAs	940	water clear	1.6	10	50°	T-1 (3mm) Round
L-34F3BT	GaAs	940	blue transparent	*4	*20	50°	
L-34SF4C	GaAlAs	880	water clear	1.6	4	50°	
L-34SF4BT	GaAlAs	880	blue transparent	*7	*20	50°	
L-34SF6C	GaAlAs	860	water clear	7	15	50°	
L-34SF6BT	GaAlAs	860	blue transparent	*10	*40	50°	
L-34SF7C	GaAlAs	850	water clear	7	18	50°	
L-34SF7BT	GaAlAs	850	blue transparent	*10	*45	50°	
L-7104F3C	GaAs	940	water clear	7	30	34°	
L-7104F3BT	GaAs	940	blue transparent	*18	*80	34°	
L-7104F3BT	GaAs	940	blue transparent	7	28	34°	T-1 3/4 (5mm) Round
L-7113F3C	GaAs	940	water clear	*10	*30	20°	
L-7113F3BT	GaAs	940	blue transparent	4	20	20°	T-1 3/4 (5mm) Round
L-7113SF4C	GaAlAs	880	water clear	*7	*30	20°	
L-7113SF4BT	GaAlAs	880	blue transparent	7	20	20°	
L-7113SF6C	GaAlAs	860	water clear	*10	*100	20°	
L-7113SF6BT	GaAlAs	860	blue transparent	*50	*100	20°	
L-7113SF7C	GaAlAs	850	water clear	10	40	20°	
L-7113SF7BT	GaAlAs	850	blue transparent	*50	*100	20°	

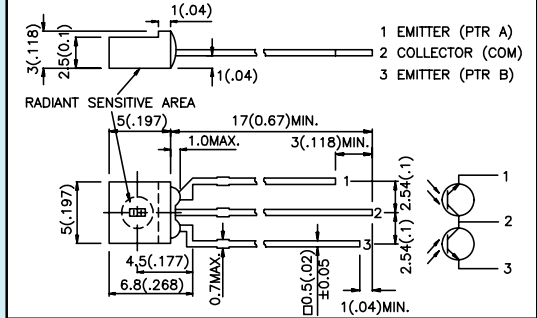
NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



PHOTOTRANSISTOR

L-610MP4BT/BD NPN BLACK PLASTIC PHOTOTRANSISTOR



ELECTRICAL AND RADIANT CHARACTERISTICS T_A=25°C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
V _{BR CEO}	Collector-to-Emitter Breakdown Voltage	30	-	-	V	I _C =100μA E _e =0mW/cm ²
V _{BR ECO}	Emitter-to-Collector Breakdown Voltage	5	-	-	V	I _E =100μA E _e =0mW/cm ²
V _{CE (SAT)}	Collector-to-Emitter Saturation Voltage	-	-	0.4	V	I _C =500μA E _e =5mW/cm ²
I _{CEO}	Collector Dark Current	-	-	100	nA	V _{CE} =10V E _e =0mW/cm ²
T _R	Rise Time (10% to 90%)	-	16	-	μs	V _{CE} =5V I _C =1mA R _L =1KΩ
T _F	Fall Time (90% to 10%)	-	18	-	μs	V _{CE} =5V, E _e =1mW/cm ² , λ=940nm
I _(ON)	On State Collector Current	0.1	0.5	-	mA	V _{CE} =5V, E _e =1mW/cm ² , λ=940nm
R	Collector Current Ratio of 2 Phototransistor	0.8	1	1.25		I _{C (on) (a)} / I _{C (on) (b)}

ABSOLUTE MAXIMUM RATING T_A=25°C

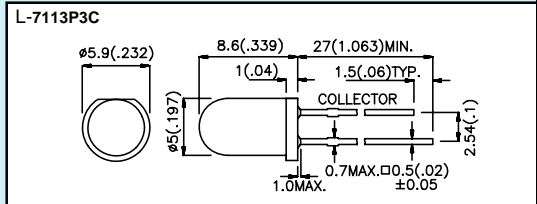
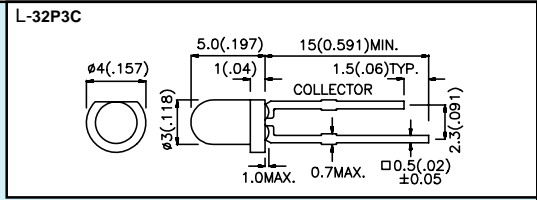
Parameter	Max. Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating Temperature Range	-55°C ~ +100°C
Storage Temperature Range	-55°C ~ +100°C
Lead Soldering Temperature (>5mm For 5sec)	260°C

T-1 (3mm) PHOTOTRANSISTOR

L-32P3C WATER CLEAR LENS

T-1 3/4 (5mm) PHOTOTRANSISTOR

L-7113P3C WATER CLEAR LENS



ELECTRICAL AND RADIANT CHARACTERISTICS T_A=25°C

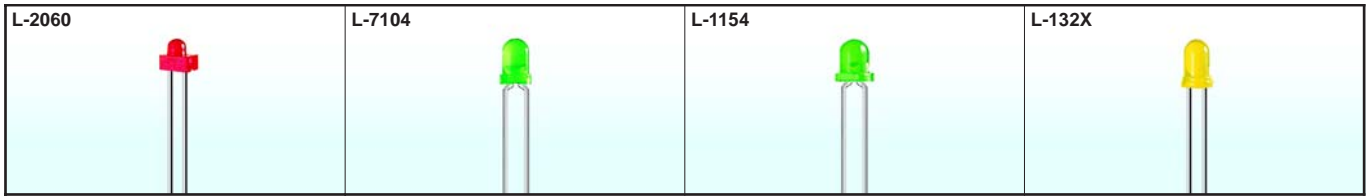
Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
V _{BR CEO}	Collector-to-Emitter Breakdown Voltage	30	-	-	V	I _C =100μA E _e =0mW/cm ²
V _{BR ECO}	Emitter-to-Collector Breakdown Voltage	5	-	-	V	I _E =100μA E _e =0mW/cm ²
V _{CE (SAT)}	Collector-to-Emitter Saturation Voltage	-	-	0.8	V	I _C =2mA E _e =20mW/cm ²
I _{CEO}	Collector Dark Current	-	-	100	nA	V _{CE} =10V E _e =0mW/cm ²
T _R	Rise Time (10% to 90%)	-	15	-	μs	V _{CE} =5V I _C =1mA R _L =1KΩ
T _F	Fall Time (90% to 10%)	-	15	-	μs	V _{CE} =5V, E _e =1mW/cm ² , λ=940nm
I _(ON)	On State Collector Current	0.1	0.5	-	mA	V _{CE} =5V, E _e =1mW/cm ² , λ=940nm

ABSOLUTE MAXIMUM RATING T_A=25°C

Parameter	Max. Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating Temperature Range	-40°C ~ +85°C
Storage Temperature Range	-40°C ~ +85°C
Lead Soldering Temperature (>5mm For 5sec)	260°C

NOTES:

- All dimensions are in millimeters(inches).
- Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

L-2060ID	GaAsP/GaP	625	red diffused	8	15	70°	1.8mm Round
L-2060SRD	GaAlAs	640	red diffused	*70	*200	70°	
L-2060SRC	GaAlAs	640	water clear	*110	*300	30°	
L-2060ED	GaAsP/GaP	625	orange diffused	8	15	70°	
L-2060YD	GaAsP/GaP	588	yellow diffused	5	8	70°	
L-2060GD	GaP	568	green diffused	5	10	70°	

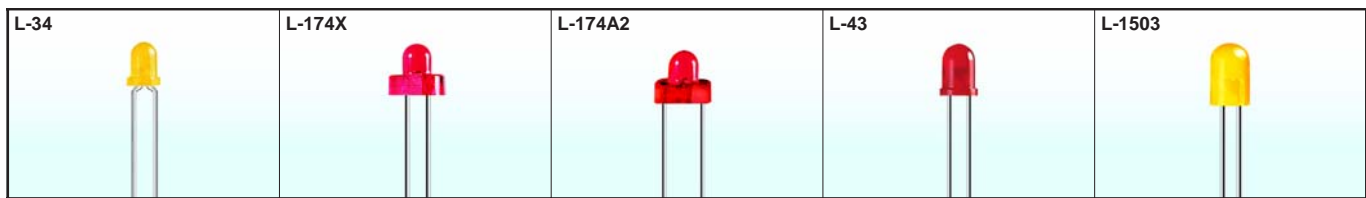
L-7104ID	GaAsP/GaP	625	red diffused	8	20	40°	T-1 (3mm) Round
L-7104IT	GaAsP/GaP	625	red transparent	18	60	34°	
L-7104EC	GaAsP/GaP	625	water clear	18	60	34°	
L-7104ED	GaAsP/GaP	625	orange diffused	8	20	40°	
L-7104ND	GaAsP/GaP	610	orange diffused	8	30	40°	
L-7104NT	GaAsP/GaP	610	orange transparent	18	50	34°	
L-7104NC	GaAsP/GaP	610	water clear	18	50	34°	
L-7104YD	GaAsP/GaP	588	yellow diffused	5	15	40°	
L-7104YT	GaAsP/GaP	588	yellow transparent	8	30	34°	
L-7104YC	GaAsP/GaP	588	water clear	8	30	34°	
L-7104GD	GaP	568	green diffused	8	20	40°	
L-7104GT	GaP	568	green transparent	18	60	34°	
L-7104GC	GaP	568	water clear	18	60	34°	
L-7104PGD	GaP	555	green diffused	1.8	5	40°	
L-7104PGT	GaP	555	green transparent	3	15	34°	
L-7104PGC	GaP	555	water clear	3	15	34°	

L-1154ID	GaAsP/GaP	625	red diffused	8	25	60°	T-1 (3mm) Round
L-1154IT	GaAsP/GaP	625	red transparent	18	60	50°	
L-1154ND	GaAsP/GaP	610	orange diffused	8	30	60°	
L-1154NT	GaAsP/GaP	610	orange transparent	18	50	50°	
L-1154YD	GaAsP/GaP	588	yellow diffused	5	15	60°	
L-1154YT	GaAsP/GaP	588	yellow transparent	8	20	50°	
L-1154GD	GaP	568	green diffused	8	15	60°	
L-1154GT	GaP	568	green transparent	18	40	50°	
L-1154PGD	GaP	555	green diffused	1.8	5	60°	
L-1154PGT	GaP	555	green transparent	3	10	50°	

L-132XID	GaAsP/GaP	625	red diffused	8	25	60°	T-1 (3mm) Round
L-132XIT	GaAsP/GaP	625	red transparent	18	60	50°	
L-132XND	GaAsP/GaP	610	orange diffused	8	30	60°	
L-132XNT	GaAsP/GaP	610	orange transparent	18	50	50°	
L-132XNC	GaAsP/GaP	610	water clear	18	50	50°	
L-132XYD	GaAsP/GaP	588	yellow diffused	5	15	60°	
L-132XYT	GaAsP/GaP	588	yellow transparent	8	20	50°	
L-132Xyc	GaAsP/GaP	588	water clear	8	20	50°	
L-132XGD	GaP	568	green diffused	8	15	60°	
L-132XGT	GaP	568	green transparent	12	40	50°	
L-132XGC	GaP	568	water clear	12	40	50°	
L-132XPGD	GaP	555	green diffused	1.8	5	60°	
L-132XPGT	GaP	555	green transparent	3	10	50°	
L-132XPGC	GaP	555	water clear	3	10	50°	

NOTES:

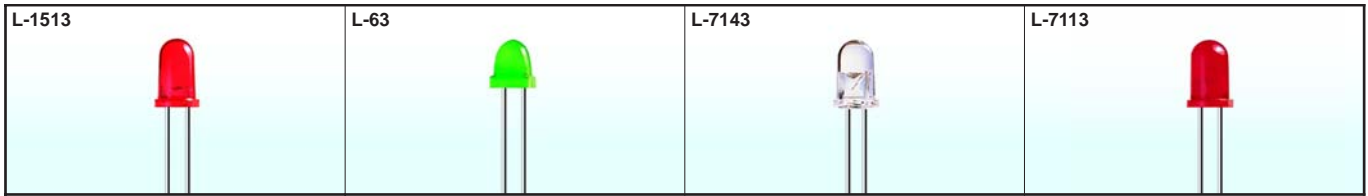
- All dimensions are in millimeters (inches).
- Tolerance is ±0.25mm (0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		
L-34HD	GaP	660	red diffused	1	3	60°	T-1 (3mm) Round
L-34ID	GaAsP/GaP	625	red diffused	8	25	60°	
L-34YD	GaAsP/GaP	588	yellow diffused	1.8	6	60°	
L-34AD	GaAsP/GaP	588	amber diffused	3	12	60°	
L-34GD	GaP	568	green diffused	5	20	60°	
L-174XHT	GaP	660	red transparent	1.8	5	35°	3.2mm Round
L-174XIT	GaAsP/GaP	625	red transparent	8	30	35°	
L-174XSRT	GaAlAs	640	red transparent	*110	*400	35°	
L-174XYT	GaAsP/GaP	588	yellow transparent	8	30	35°	
L-174XGT	GaP	568	green transparent	8	30	35°	
L-174A2HT	GaP	660	red transparent	1.8	6	35°	3.2mm Round
L-174A2IT	GaAsP/GaP	625	red transparent	28	90	35°	
L-174A2SRT	GaAlAs	640	red transparent	*380	*900	35°	
L-174A2YT	GaAsP/GaP	588	yellow transparent	18	35	35°	
L-174A2GT	GaP	568	green transparent	12	40	35°	
L-43HD	GaP	660	red diffused	0.7	2	80°	4mm Round
L-43ID	GaAsP/GaP	625	red diffused	5	15	80°	
L-43YD	GaAsP/GaP	588	yellow diffused	3	10	80°	
L-43GD	GaP	568	green diffused	3	12	80°	
L-1503ID	GaAsP/GaP	625	red diffused	8	30	60°	T-1 3/4 (5mm) Round
L-1503IT	GaAsP/GaP	625	red transparent	28	80	30°	
L-1503EC	GaAsP/GaP	625	water clear	28	80	30°	
L-1503SRC-D	GaAlAs	640	water clear	*900	*1500	30°	
L-1503SRD	GaAlAs	640	red diffused	*380	*700	60°	
L-1503YD	GaAsP/GaP	588	yellow diffused	5	20	60°	
L-1503YT	GaAsP/GaP	588	yellow transparent	18	40	30°	
L-1503YC	GaAsP/GaP	588	water clear	18	40	30°	
L-1503GD	GaP	568	green diffused	5	20	60°	
L-1503GT	GaP	568	green transparent	18	60	30°	
L-1503GC	GaP	568	water clear	18	60	30°	
L-1503SGC	GaP	568	water clear	*70	*200	30°	
L-1503SGT	GaP	568	green transparent	*70	*150	30°	

NOTES:

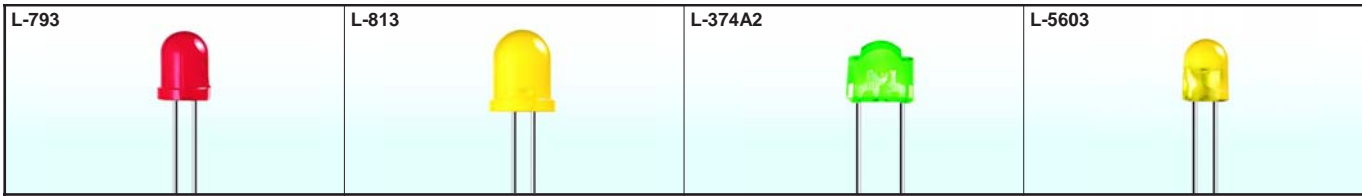
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		
L-1513IT	GaAsP/GaP	625	red transparent	40	80	20°	T-1 3/4 (5mm) Round
L-1513EC	GaAsP/GaP	625	water clear	40	80	20°	
L-1513SURC	InGaAlP	628	water clear	*1200	*1800	20°	
L-1513SURC-E	InGaAlP	630	water clear	*1500	*2200	20°	
L-1513YT	GaAsP/GaP	588	yellow transparent	18	40	20°	
L-1513YC	GaAsP/GaP	588	water clear	18	40	20°	
L-1513GT	GaP	568	green transparent	18	50	20°	
L-1513GC	GaP	568	water clear	18	50	20°	
L-63ID	GaAsP/GaP	625	red diffused	12	20	60°	T-1 3/4 (5mm) Round
L-63IT	GaAsP/GaP	625	red transparent	28	50	30°	
L-63SRD	GaAlAs	640	red diffused	*110	*300	60°	
L-63SRT	GaAlAs	640	red transparent	*280	*600	30°	
L-63SRC	GaAlAs	640	water clear	*180	*700	30°	
L-63YD	GaAsP/GaP	588	yellow diffused	1.8	6	60°	
L-63YT	GaAsP/GaP	588	yellow transparent	18	35	30°	
L-63GD	GaP	568	green diffused	5	12	60°	
L-63GT	GaP	568	green transparent	18	40	30°	
L-7143SRC-C	GaAlAs	640	water clear	*380	*600	30°	T-1 3/4 (5mm) Round
L-7143SRC-D	GaAlAs	640	water clear	*650	*900	30°	
L-7143SGC	GaP	568	water clear	*70	*150	30°	
L-7113ID	GaAsP/GaP	625	red diffused	8	45	30°	T-1 3/4 (5mm) Round
L-7113IT	GaAsP/GaP	625	red transparent	28	80	20°	
L-7113EC	GaAsP/GaP	625	water clear	28	80	20°	
L-7113ED	GaAsP/GaP	625	orange diffused	8	25	30°	
L-7113ND	GaAsP/GaP	610	orange diffused	12	30	30°	
L-7113NT	GaAsP/GaP	610	orange transparent	40	80	20°	
L-7113NC	GaAsP/GaP	610	water clear	40	80	20°	
L-7113YD	GaAsP/GaP	588	yellow diffused	5	20	30°	
L-7113YT	GaAsP/GaP	588	yellow transparent	18	40	20°	
L-7113YC	GaAsP/GaP	588	water clear	18	40	20°	
L-7113GD	GaP	568	green diffused	5	20	30°	
L-7113GT	GaP	568	green transparent	18	60	20°	
L-7113GC	GaP	568	water clear	18	60	20°	
L-7113PGD	GaP	555	green diffused	1.8	5	30°	
L-7113PGT	GaP	555	green transparent	5	10	20°	
L-7113PGC	GaP	555	water clear	5	10	20°	

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

L-793ID	GaAsP/GaP	625	red diffused	*36	*100	30°	8mm Round
L-793SRC-D	GaAlAs	640	water clear	*1500	*1700	15°	
L-793SRC-E	GaAlAs	640	water clear	*1800	*2700	15°	
L-793SRD-C	GaAlAs	640	red diffused	*180	*250	30°	
L-793SRD-D	GaAlAs	640	red diffused	*280	*350	30°	
L-793SRD-E	GaAlAs	640	red diffused	*380	*450	30°	
L-793ED	GaAsP/GaP	625	orange diffused	*36	*100	30°	
L-793YD	GaAsP/GaP	588	yellow diffused	*18	*50	30°	
L-793GD	GaP	568	green diffused	*18	*60	30°	

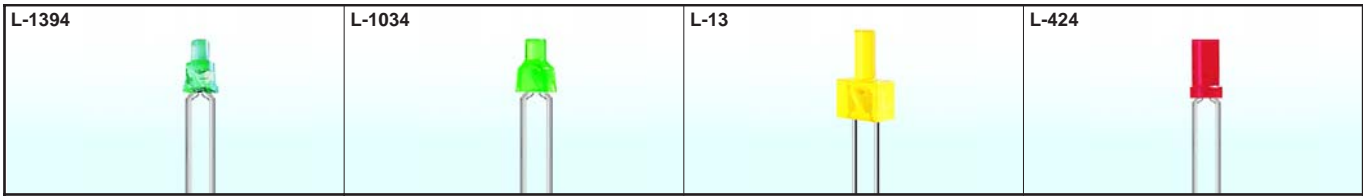
L-813ID	GaAsP/GaP	625	red diffused	*36	*100	30°	10mm Round
L-813SRC-D	GaAlAs	640	water clear	*1500	*1700	15°	
L-813SRD-C	GaAlAs	640	red diffused	*180	*250	30°	
L-813SRD-D	GaAlAs	640	red diffused	*280	*350	30°	
L-813SRD-E	GaAlAs	640	red diffused	*380	*450	30°	
L-813ED	GaAsP/GaP	625	orange diffused	*36	*100	30°	
L-813YD	GaAsP/GaP	588	yellow diffused	*10	*50	30°	
L-813GD	GaP	568	green diffused	*18	*60	30°	

L-374A2IT	GaAsP/GaP	625	red transparent	8	20	60°(H) 55°(V)	3.6mm x 3.1mm Oval
L-374A2AT	GaAsP/GaP	588	amber transparent	3	9	60°(H) 55°(V)	
L-374A2YT	GaAsP/GaP	588	yellow transparent	3	10	60°(H) 55°(V)	
L-374A2GT	GaP	568	green transparent	5	15	60°(H) 55°(V)	

L-5603SIDL/SD-H	InGaAlP	630	red semi diffused	*650	*2500	100°(H) 50°(V)	5.2mm Oval
L-5603SYDL/SD-H	InGaAlP	589	yellow semi diffused	*380	*750	100°(H) 50°(V)	
L-5603VGDL/SD-Z	InGaN	535	green semi diffused	*2800	*6000	100°(H) 50°(V)	
L-5603PBDL/SD-Z-DTS	InGaN	465	blue semi diffused	*480	*1100	90°(H) 30°(V)	

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

L-1394HDT	GaP	660	red diffused	0.4	1	120°	<p>2mm Flat Top</p>
L-1394IDT	GaAsP/GaP	625	red diffused	5	8	120°	
L-1394YDT	GaAsP/GaP	588	yellow diffused	1.8	5	120°	
L-1394GDT	GaP	568	green diffused	3	5	120°	

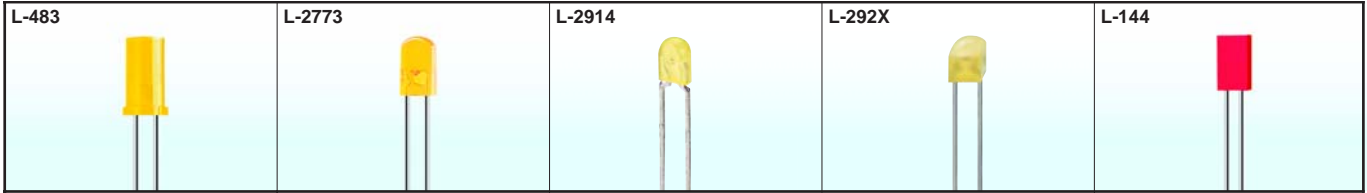
L-1034HDT	GaP	660	red diffused	0.4	1	70°	<p>2mm Flat Top</p>
L-1034IDT	GaAsP/GaP	625	red diffused	3	8	70°	
L-1034YDT	GaAsP/GaP	588	yellow diffused	1.8	5	70°	
L-1034GDT	GaP	568	green diffused	1.8	6	70°	

L-13HD	GaP	660	red diffused	0.4	1.5	70°	<p>2mm Flat Top</p>
L-13ID	GaAsP/GaP	625	red diffused	5	10	70°	
L-13YD	GaAsP/GaP	588	yellow diffused	3	8	70°	
L-13GD	GaP	568	green diffused	3	10	70°	

L-424HDT	GaP	660	red diffused	0.4	1	100°	<p>T-1 (3mm) Cylindrical</p>
L-424IDT	GaAsP/GaP	625	red diffused	3	5	100°	
L-424SRDT	GaAlAs	640	red diffused	*36	*100	100°	
L-424EDT	GaAsP/GaP	625	orange diffused	3	5	100°	
L-424YDT	GaAsP/GaP	588	yellow diffused	1	4	100°	
L-424GDT	GaP	568	green diffused	1	4	100°	

NOTES:

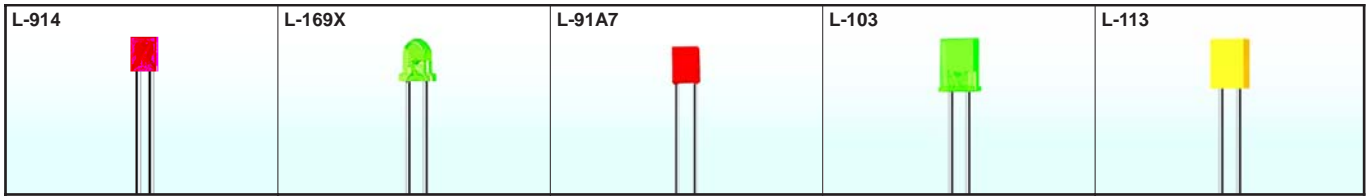
1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		
L-483HDT	GaP	660	red diffused	0.4	1	100°	T-1 3/4 (5mm) Cylindrical
L-483IDT	GaAsP/GaP	625	red diffused	1.8	5	100°	
L-483EDT	GaAsP/GaP	625	orange diffused	3	7	100°	
L-483YDT	GaAsP/GaP	588	yellow diffused	0.7	3	100°	
L-483GDT	GaP	568	green diffused	1	4	100°	
L-483SRSGW	GaAlAs	640	white diffused	*18	*50	80°	
	GaP	568		*4	*10		
L-2773HD	GaP	660	red diffused	0.7	2	100°	1.75mm x 3.9mm Rectangular
L-2773ID	GaAsP/GaP	625	red diffused	5	10	100°	
L-2773ED	GaAsP/GaP	625	orange diffused	5	10	100°	
L-2773ND	GaAsP/GaP	610	orange diffused	5	8	100°	
L-2773YD	GaAsP/GaP	588	yellow diffused	3	8	100°	
L-2773GD	GaP	568	green diffused	3	10	100°	
L-2914ID	GaAsP/GaP	625	red diffused	12	25	50°	2mm x 3mm Rectangular
L-2914YD	GaAsP/GaP	588	yellow diffused	5	13	50°	
L-2914GD	GaP	568	green diffused	5	15	50°	
L-292XGD	GaP	568	green diffused	5	12	110°	1.9mm x 3.1mm Rectangular
L-292XGT	GaP	568	green transparent	5	14	90°	
L-292XIT	GaAsP/GaP	625	red transparent	5	14	90°	
L-292XYD	GaAsP/GaP	588	yellow diffused	1.8	8	110°	
L-292XYT	GaAsP/GaP	588	yellow transparent	1.8	9	90°	
L-144HDT	GaP	660	red diffused	0.4	1	110°	1.9mm x 3.9mm Rectangular
L-144IDT	GaAsP/GaP	625	red diffused	3	6	110°	
L-144SRDT	GaAlAs	640	red diffused	*36	*70	110°	
L-144EDT	GaAsP/GaP	625	orange diffused	3	6	110°	
L-144YDT	GaAsP/GaP	588	yellow diffused	1	3	110°	
L-144GDT	GaP	568	green diffused	1	4	110°	

NOTES:

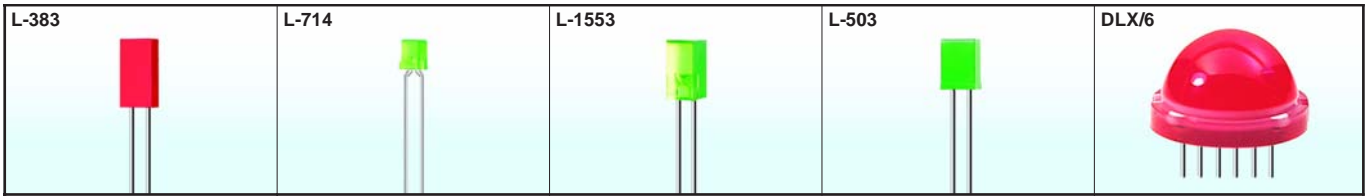
- All dimensions are in millimeters(inches).
- Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ/2	Dimension
				Min.	Typ.		
L-914HDT	GaP	660	red diffused	0.2	1	100°	2mm x 3mm Rectangular
L-914HT	GaP	660	red transparent	0.4	1	90°	
L-914IDT	GaAsP/GaP	625	red diffused	1.8	8	100°	
L-914IT	GaAsP/GaP	625	red transparent	3	8	90°	
L-914EDT	GaAsP/GaP	625	orange diffused	1.8	8	100°	
L-914ET	GaAsP/GaP	625	orange transparent	3	8	90°	
L-914ADT	GaAsP/GaP	588	amber diffused	1.8	5	100°	
L-914AT	GaAsP/GaP	588	amber transparent	1.8	7	90°	
L-914GDT	GaP	568	green diffused	1.8	6	100°	
L-914GT	GaP	568	green transparent	3	8	90°	
L-914PGT	GaP	555	green transparent	0.4	1	90°	
L-169XHD	GaP	660	red diffused	1	3	60°	2mm x 3mm Rectangular
L-169XHT	GaP	660	red transparent	1.8	5	50°	
L-169XID	GaAsP/GaP	625	red diffused	8	15	60°	
L-169XIT	GaAsP/GaP	625	red transparent	12	30	50°	
L-169XYD	GaAsP/GaP	588	yellow diffused	5	10	60°	
L-169XYT	GaAsP/GaP	588	yellow transparent	5	15	50°	
L-169XAT	GaAsP/GaP	588	amber transparent	5	15	50°	
L-169XGD	GaP	568	green diffused	5	15	60°	
L-169XGT	GaP	568	green transparent	5	20	50°	
L-169XPGD	GaP	555	green diffused	1.8	5	60°	
L-169XPGTL	GaP	555	green transparent	3	8	50°	
L-91A7IDT	GaAsP/GaP	625	red diffused	3	8	60°	2mm x 3mm Rectangular
L-91A7YDT	GaAsP/GaP	588	yellow diffused	1	3.5	60°	
L-91A7GDT	GaP	568	green diffused	3	7	60°	
L-103HDT	GaP	660	red diffused	0.4	1	110°	2mm x 5mm Rectangular
L-103IDT	GaAsP/GaP	625	red diffused	1.8	5	110°	
L-103SRDT	GaAlAs	640	red diffused	*36	*80	110°	
L-103EDT	GaAsP/GaP	625	orange diffused	1.8	5	110°	
L-103YDT	GaAsP/GaP	588	yellow diffused	1	4	110°	
L-103GDT	GaP	568	green diffused	1.8	5	110°	
L-113HDT	GaP	660	red diffused	0.4	1	110°	2mm x 5mm Rectangular
L-113IDT	GaAsP/GaP	625	red diffused	3	5	110°	
L-113SRDT	GaAlAs	640	red diffused	*36	*80	110°	
L-113EDT	GaAsP/GaP	625	orange diffused	3	5	110°	
L-113YDT	GaAsP/GaP	588	yellow diffused	1	4	110°	
L-113GDT	GaP	568	green diffused	1.8	5	110°	
L-113SRSGWT	GaAlAs	640	white diffused	*36	*70	110°	
	GaP	568	white diffused	*7	*10	110°	

NOTES:

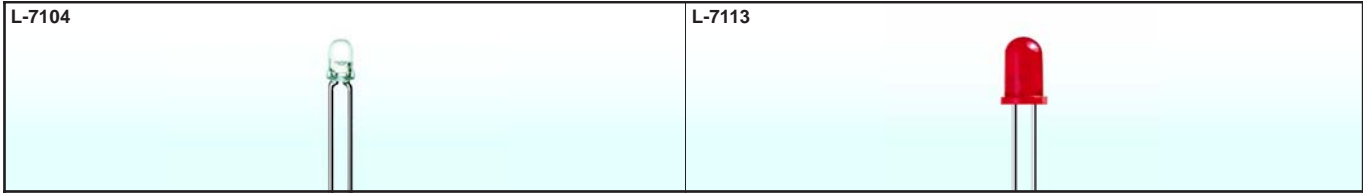
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @10mA *20mA		Viewing Angle 2θ/2	Dimension
				Min.	Typ.		
L-383HDT	GaP	660	red diffused	0.4	1	110°	2.5mm x 5mm Rectangular
L-383IDT	GaAsP/GaP	625	red diffused	3	5	110°	
L-383SRDT	GaAlAs	640	red diffused	*36	*70	110°	
L-383SRWT	GaAlAs	640	white diffused	*36	*70	110°	
L-383EDT	GaAsP/GaP	625	orange diffused	3	5	110°	
L-383YDT	GaAsP/GaP	588	yellow diffused	1	4	110°	
L-383GDT	GaP	568	green diffused	1	4	110°	
L-383SGWT	GaP	568	white diffused	*7	*15	110°	
L-714HDT	GaP	660	red diffused	0.4	1	110°	3mm x 3mm Square
L-714IDT	GaAsP/GaP	625	red diffused	3	5	110°	
L-714SRDT	GaAlAs	640	red diffused	*36	*70	110°	
L-714EDT	GaAsP/GaP	625	orange diffused	3	5	110°	
L-714YDT	GaAsP/GaP	588	yellow diffused	1	5	110°	
L-714GDT	GaP	568	green diffused	1	5	110°	
L-1553HDT	GaP	660	red diffused	0.4	1	110°	5mm x 5mm Square
L-1553IDT	GaAsP/GaP	625	red diffused	3	8	110°	
L-1553SRDT	GaAlAs	640	red diffused	*36	*80	110°	
L-1553EDT	GaAsP/GaP	625	orange diffused	3	8	110°	
L-1553YDT	GaAsP/GaP	588	yellow diffused	1	5	110°	
L-1553GDT	GaP	568	green diffused	1	5	110°	
L-503HDT	GaP	660	red diffused	0.4	1	110°	5mm x 5mm Square
L-503IDT	GaAsP/GaP	625	red diffused	3	6	110°	
L-503YDT	GaAsP/GaP	588	yellow diffused	1	3	110°	
L-503GDT	GaP	568	green diffused	1	3	110°	
DLA/6ID DLC/6ID	GaAsP/GaP	625	red diffused	12	50	120°	20mm
DLA/6SRD DLC/6SRD	GaAlAs	640	red diffused	*110	*400	120°	
DLA/6YD DLC/6YD	GaAsP/GaP	588	yellow diffused	12	50	120°	
DLA/6GD DLC/6GD	GaP	568	green diffused	18	80	120°	
DLA/6SGD DLC/6SGD	GaP	568	green diffused	*70	*200	120°	

NOTES:

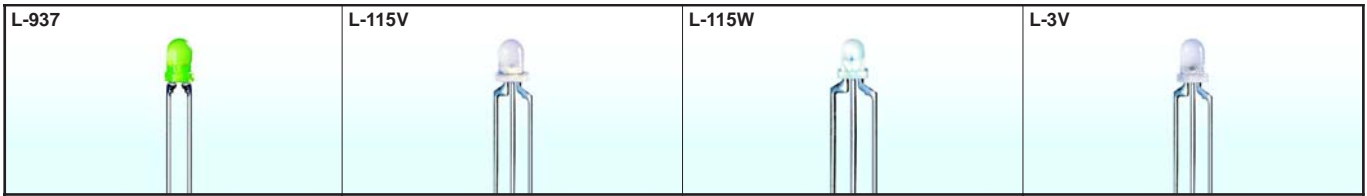
1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2θ1/2	Dimension	
				Min.	Typ.			
L-7104SRC-D	GaAlAs	640	water clear	480	600	34°	T-1 (3mm) Round 	
L-7104SRC-E	GaAlAs	640	water clear	650	800	34°		
L-7104SRD-D	GaAlAs	640	red diffused	110	150	40°		
L-7104SRD-E	GaAlAs	640	red diffused	180	250	40°		
L-7104SRD-F	GaAlAs	640	red diffused	280	350	40°		
L-7104SURC-E	InGaAlP	630	water clear	900	1300	34°		
L-7104SEC	InGaAlP	601	water clear	480	1300	34°		
L-7104SET	InGaAlP	601	orange transparent	480	1300	34°		
L-7104SED	InGaAlP	601	orange diffused	280	800	40°		
L-7104SEC-E	InGaAlP	621	water clear	900	2000	34°		
L-7104SEC-H	InGaAlP	630	water clear	1800	3500	34°		
L-7104SYC	InGaAlP	588	water clear	280	700	34°		
L-7104SYT	InGaAlP	588	yellow transparent	280	700	34°		
L-7104SYD	InGaAlP	588	yellow diffused	110	250	40°		
L-7104SYC-H	InGaAlP	589	water clear	480	900	34°		
L-7104SGC	GaP	568	water clear	70	150	34°		
L-7104SGD	GaP	568	green diffused	18	40	40°		
L-7104CGCK	InGaAlP	570	water clear	110	350	34°		
L-7104VGC-E	InGaN	525	water clear	1500	4000	34°		
L-7104PBD-A	InGaN	470	blue diffused	180	700	30°		
L-7104PBT-A	InGaN	470	blue transparent	180	800	20°		
L-7104PBC-A	InGaN	470	water clear	180	1000	20°		
L-7113SRC-DU	GaAlAs	640	water clear	900	1100	20°		T-1 3/4 (5mm) Round
L-7113SRC-DV	GaAlAs	640	water clear	1200	1400	20°		
L-7113SRC-DW	GaAlAs	640	water clear	1500	1700	20°		
L-7113SRD-D	GaAlAs	640	red diffused	180	250	30°		
L-7113SRD-E	GaAlAs	640	red diffused	280	400	30°		
L-7113SRD-F	GaAlAs	640	red diffused	480	600	30°		
L-7113SURC	InGaAlP	628	water clear	1200	1400	20°		
L-7113SURC-E	InGaAlP	630	water clear	1500	2200	20°		
L-7113SEC	InGaAlP	601	water clear	650	2500	20°		
L-7113SET	InGaAlP	601	orange transparent	650	2500	20°		
L-7113SED	InGaAlP	601	orange diffused	380	800	30°		
L-7113SEC-E	InGaAlP	621	water clear	1500	5000	20°		
L-7113SEC-H	InGaAlP	630	water clear	3800	10000	20°		
L-7113SYC	InGaAlP	588	water clear	650	2000	20°		
L-7113SYT	InGaAlP	588	yellow transparent	650	2000	20°		
L-7113SYD	InGaAlP	588	yellow diffused	180	600	30°		
L-7113SYC-H	InGaAlP	589	water clear	1500	3300	20°		
L-7113SGC	GaP	568	water clear	70	200	20°		
L-7113SGD	GaP	568	green diffused	18	40	30°		
L-7113CGCK	InGaAlP	570	water clear	380	900	20°		
L-7113VGC-E	InGaN	525	water clear	2800	6000	20°		
L-7113PBD-A	InGaN	470	blue diffused	70	400	20°		
L-7113PBT-A	InGaN	470	blue transparent	280	450	16°		
L-7113PBC-A	InGaN	470	water clear	280	1000	16°		
L-7113SRSGW	GaAlAs	640	white diffused	110	200	35°		
	GaP	568	white diffused	18	60	35°		

NOTES:

- All dimensions are in millimeters(inches).
- Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

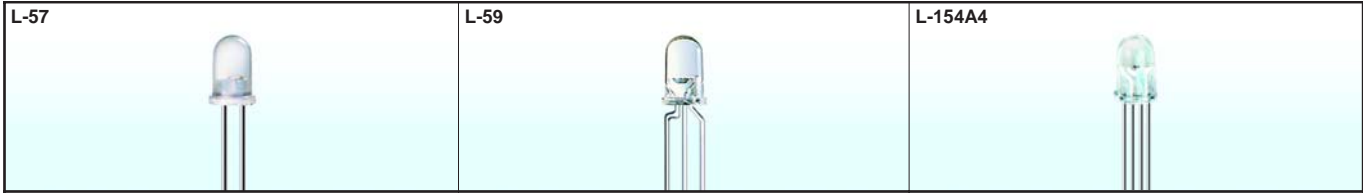
L-937IID	GaAsP/GaP	625	red diffused	7	20	60°	T-1 (3mm) Round
	GaAsP/GaP	625		7	20		
L-937GGD	GaP	568	green diffused	4	15	60°	
	GaP	568		4	15		
L-937YYD	GaAsP/GaP	588	yellow diffused	4	10	60°	
	GaAsP/GaP	588		4	10		
L-937EGW	GaAsP/GaP	625	white diffused	7	20	60°	
	GaP	568		7	16		
L-937EYW	GaAsP/GaP	625	white diffused	7	20	60°	
	GaAsP/GaP	588		1.6	7		
L-937GYW	GaP	568	white diffused	7	16	60°	
	GaAsP/GaP	588		1.6	7		

L-115VEGW	GaAsP/GaP	625	white diffused	10	50	60°	T-1 (3mm) Round
	GaP	568		10	30		
L-115VEYW	GaAsP/GaP	625	white diffused	10	50	60°	
	GaAsP/GaP	588		7	15		
L-115VGYW	GaP	568	white diffused	10	30	60°	
	GaAsP/GaP	588		7	15		

L-115WEGW	GaAsP/GaP	625	white diffused	10	40	60°	T-1 (3mm) Round
	GaP	568		10	35		
L-115WEYW	GaAsP/GaP	625	white diffused	10	40	60°	
	GaAsP/GaP	588		7	20		
L-115WGYW	GaP	568	white diffused	10	35	60°	
	GaAsP/GaP	588		7	20		

L-3VEGW	GaAsP/GaP	625	white diffused	10	40	60°	T-1 (3mm) Round
	GaP	568		10	35		
L-3VEYW	GaAsP/GaP	625	white diffused	10	40	60°	
	GaAsP/GaP	588		7	15		
L-3VGYW	GaP	568	white diffused	10	35	60°	
	GaAsP/GaP	588		7	15		

NOTES:
 1. All dimensions are in millimeters(inches).
 2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

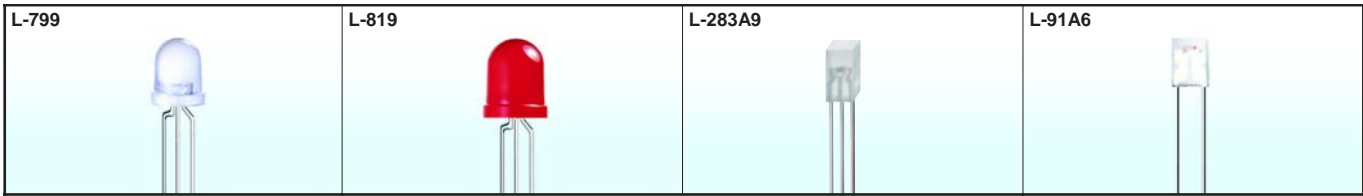
L-57IID	GaAsP/GaP	625	red diffused	7	20	60°	T-1 3/4 (5mm) Round
	GaAsP/GaP	625		7	20		
L-57GGD	GaP	568	green diffused	4	10	60°	
	GaP	568		4	10		
L-57YYD	GaAsP/GaP	588	yellow diffused	4	10	60°	
	GaAsP/GaP	588		4	10		
L-57SRSRD	GaAlAs	640	red diffused	70	150	60°	
	GaAlAs	640		70	150		
L-57EGW	GaAsP/GaP	625	white diffused	10	30	60°	
	GaP	568		10	20		
L-57EYW	GaAsP/GaP	625	white diffused	10	30	60°	
	GaAsP/GaP	588		4	10		
L-57GYW	GaP	568	white diffused	10	20	60°	
	GaAsP/GaP	588		4	10		

L-59EGW	GaAsP/GaP	625	white diffused	18	60	60°	T-1 3/4 (5mm) Round
	GaP	568		18	50		
L-59EGW-CA	GaAsP/GaP	625	white diffused	2.6	5	60°	
	GaP	568		1.6	5		
L-59EYW	GaAsP/GaP	625	white diffused	18	60	60°	
	GaAsP/GaP	588		18	40		
L-59GYW	GaP	568	white diffused	18	50	60°	
	GaAsP/GaP	588		18	40		
L-59SRSGW-CC	GaAlAs	640	white diffused	110	220	60°	
	GaP	568		18	50		
L-59SURKMGKW	InGaAlP	635	white diffused	280	700	60°	
	InGaAlP	570		50	170		
L-59EGC	GaAsP/GaP	625	water clear	70	150	24°	
	GaP	568		70	150		
L-59EYC	GaAsP/GaP	625	water clear	70	150	24°	
	GaAsP/GaP	588		18	60		
L-59GYC	GaP	568	water clear	70	150	24°	
	GaAsP/GaP	588		18	60		
L-59SRSGC-CC	GaAlAs	640	water clear	280	600	24°	
	GaP	568		70	200		
L-59SURKSGC	InGaAlP	635	water clear	480	1100	24°	
	GaP	568		70	200		

L-154A4SURKPBAVGAC	InGaAlP	635		380	700	T-1 3/4 (5mm) Full color
	InGaN	470	water clear	180	500	
	InGaN	525		480	1200	
L-154A4SURKPBAVGAW	InGaAlP	635		280	500	T-1 3/4 (5mm) Full color
	InGaN	470	white diffused	70	300	
	InGaN	525		180	500	
L-154A4SUREPBGVGE	InGaAlP	630		650	1300	T-1 3/4 (5mm) Full color
	InGaN	470	water clear	280	800	
	InGaN	525		480	1300	
L-154A4SUREPBGVGEW	InGaAlP	630		380	750	T-1 3/4 (5mm) Full color
	InGaN	470	white diffused	180	450	
	InGaN	525		280	550	

NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		

L-799EGW	GaAsP/GaP	625	white diffused	36	80	50°	8mm Round
	GaP	568		18	50		
L-799SRSGW-CC	GaAlAs	640	white diffused	110	200	50°	
	GaP	568		18	50		
L-799SURKMGKW	InGaAlP	635	white diffused	380	600	50°	
	InGaAlP	570		50	130		

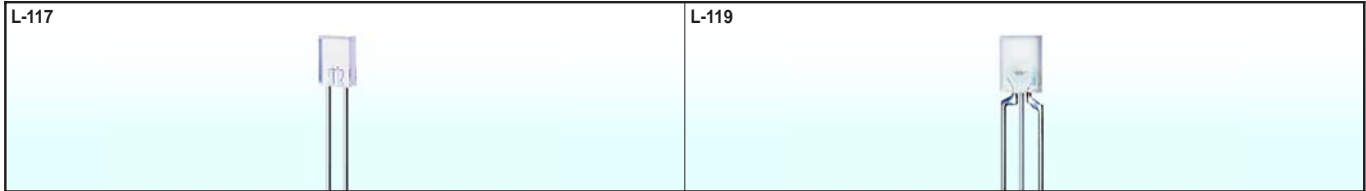
L-819IID	GaAsP/GaP	625	red diffused	36	80	50°	10mm Round
L-819GGD	GaP	568		green diffused	10		
L-819YYD	GaAsP/GaP	588	yellow diffused		10	30	
	GaAsP/GaP	588		10	30		
L-819EGW	GaAsP/GaP	625	white diffused	36	80	50°	
	GaP	568		18	50		
L-819SRSGW-CC	GaAlAs	640	white diffused	110	300	50°	
	GaP	568		36	50		
L-819SURKMGKW	InGaAlP	635	white diffused	380	750	50°	
	InGaAlP	570		50	130		

L-283A9NGWT/TG	GaAsP/GaP	610	white diffused	7	15	120°	1.75mm x 3.5mm Rectangular
	GaP	568		4	10		

L-91A6GNWT	GaP	568	white diffused	1.6	4	110°	2mm x 3mm Rectangular
L-91A6YGWT	GaAsP/GaP	610		4	10		
L-91A6YGWT	GaAsP/GaP	588	white diffused	1.6	4	110°	
	GaP	568		1.6	4		

NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(0.01") unless otherwise noted.



Part No.	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimension
				Min.	Typ.		
L-117EGWT	GaAsP/GaP	625	white diffused	4	10	110°	2mm x 5mm Rectangular
	GaP	568		4	8		
L-117EYWT	GaAsP/GaP	625	white diffused	4	10	110°	
	GaAsP/GaP	588		2.6	6		
L-117GYWT	GaP	568	white diffused	4	8	110°	
	GaAsP/GaP	588		2.6	6		
L-119EGWT	GaAsP/GaP	625	white diffused	7	20	110°	2mm x 5mm Rectangular
L-119SRSGWT-CC	GaAlAs	640	white diffused	18	60	110°	
	GaP	568		4	12		
L-119SURKMGKWT	InGaAlP	635	white diffused	70	170	110°	
	InGaAlP	570		10	30		

NOTES:

- All dimensions are in millimeters(inches).
- Tolerance is ±0.25mm(0.01") unless otherwise noted.

