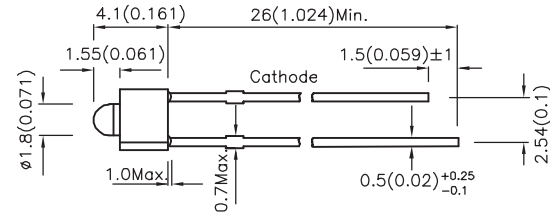
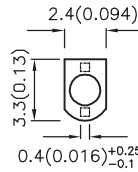


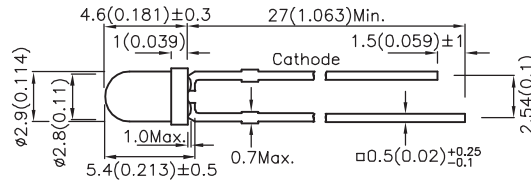
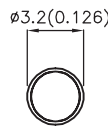
Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=20mA,10mA^*$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		

1.8mm



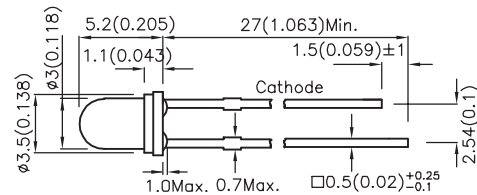
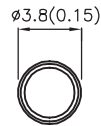
LUR61D-A	◆ GaAsP/GaP(Red)	627	*4	*7	70°	Red Diffused
LUY61D-A	◆ GaAsP/GaP(Yellow)	590	*4	*7	70°	Yellow Diffused
LUG61D-A	◆ GaP(Green)	565	*6	*11	70°	Green Diffused

3mm



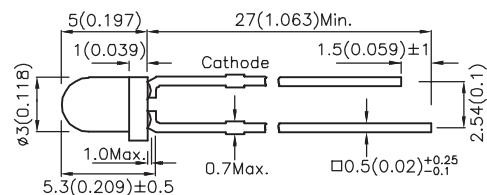
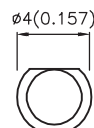
LUR11D	◆ GaAsP/GaP(Red)	627	*10	*19	50°	Red Diffused
LUY11D	◆ GaAsP/GaP(Yellow)	590	*8	*14	50°	Yellow Diffused
LUG11D	◆ GaP(Green)	565	*10	*24	50°	Green Diffused
LM2MR11D	◆ AlGaInP(Red)	660	200	497	50°	Red Diffused
LM2MR11W	◆ AlGaInP(Red)	660	1000	1495	30°	Water Clear
LMDK11D	◆ AlGaInP(Red)	645	120	238	50°	Red Diffused
LMDK11W	◆ AlGaInP(Red)	645	400	895	30°	Water Clear
LM2CRK11W	◆ AlGaInP(Red)	640	2300	3590	30°	Water Clear
LM2MOK11W	◆ AlGaInP(Orange)	611	3600	5990	30°	Water Clear
LMOK11W	◆ AlGaInP(Orange)	610	700	1395	30°	Water Clear
LMYK11D	◆ AlGaInP(Yellow)	590	400	795	50°	Yellow Diffused
LMYK11W	◆ AlGaInP(Yellow)	590	700	1495	30°	Water Clear
LM2CYK11W	◆ AlGaInP(Yellow)	590	1900	2990	30°	Water Clear
LM2DG11W	◆ InGaN(Green)	520	10500	16490	30°	Water Clear
LDGK11W	◆ InGaN(Green)	515	8000	13990	30°	Water Clear
LFBB11W	◆ InGaN(Blue)	465	2100	3690	30°	Water Clear
LCBD11D	◆ InGaN(Blue)	460	480	995	50°	Blue Diffused
LCBD11W	◆ InGaN(Blue)	460	900	1590	30°	Water Clear

3mm



LUR65D	◆ GaAsP/GaP(Red)	627	*8	*15	60°	Red Diffused
LUY65D	◆ GaAsP/GaP(Yellow)	590	*6	*14	60°	Yellow Diffused
LUG65D	◆ GaP(Green)	565	*15	*24	60°	Green Diffused

3mm



LHR34D	◆ GaP(Red)	700	*0.6	*1.6	60°	Red Diffused
LUR34D	◆ GaAsP/GaP(Red)	627	*6	*14	60°	Red Diffused
LUY34D	◆ GaAsP/GaP(Yellow)	590	*8	*14	60°	Yellow Diffused
LUG34D	◆ GaP(Green)	565	*12	*24	60°	Green Diffused

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=20mA, 10mA^*$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		

**5mm**

LUR12D	◆ GaAsP/GaP(Red)	627	*18	*39	30°	Red Diffused
LUY12D	◆ GaAsP/GaP(Yellow)	590	*10	*24	30°	Yellow Diffused
LUG12D	◆ GaP(Green)	565	*15	*29	30°	Green Diffused
LM2MR12D	◆ AlGaInP(Red)	660	300	597	30°	Red Diffused
LM2MR12W	◆ AlGaInP(Red)	660	3300	4990	20°	Water Clear
LMDK12D	◆ AlGaInP(Red)	645	300	647	30°	Red Diffused
LMDK12W	◆ AlGaInP(Red)	645	900	1295	20°	Water Clear
LM2CRK12W	◆ AlGaInP(Red)	640	3600	5990	20°	Water Clear
LM2MOK12W	◆ AlGaInP(Orange)	611	5000	8890	20°	Water Clear
LMOK12W	◆ AlGaInP(Orange)	610	1300	2090	20°	Water Clear
LMYK12D	◆ AlGaInP(Yellow)	590	500	995	30°	Yellow Diffused
LMYK12W	◆ AlGaInP(Yellow)	590	1800	2990	20°	Water Clear
LM2CYK12W	◆ AlGaInP(Yellow)	590	5000	7790	20°	Water Clear
LM2DG12W	◆ InGaN(Green)	520	18000	29990	20°	Water Clear
LDGK12W	◆ InGaN(Green)	515	14000	25990	20°	Water Clear
LFBB12W	◆ InGaN(Blue)	465	4300	6990	20°	Water Clear
LCBD12D	◆ InGaN(Blue)	460	600	995	30°	Blue Diffused
LCBD12W	◆ InGaN(Blue)	460	3100	4490	20°	Water Clear

**5mm**

LM2CRK14W	◆ AlGaInP(Red)	640	1500	2890	30°	Water Clear
LFBB14W	◆ InGaN(Blue)	465	1900	3090	30°	Water Clear

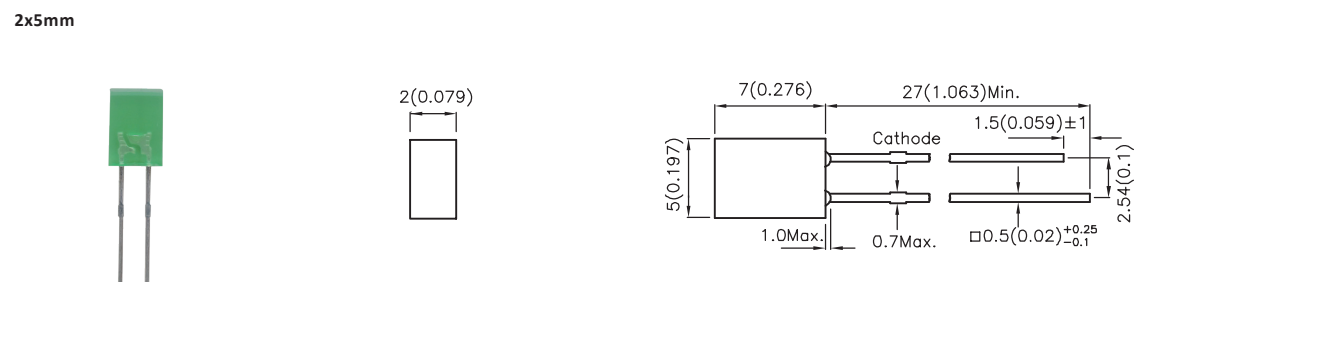
**10mm**

LMR01DE	◆ GaAlAs(Red)	655	120	198	30°	Red Diffused
LUR01D	◆ GaAsP/GaP(Red)	627	36	79	30°	Red Diffused
LUY01D	◆ GaAsP/GaP(Yellow)	590	18	49	30°	Yellow Diffused
LUG01D	◆ GaP(Green)	565	20	59	30°	Green Diffused

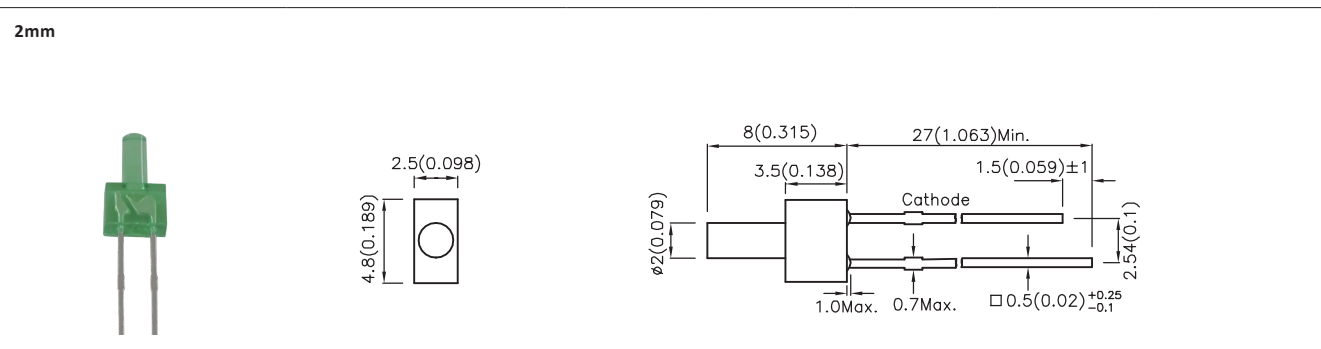
1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.



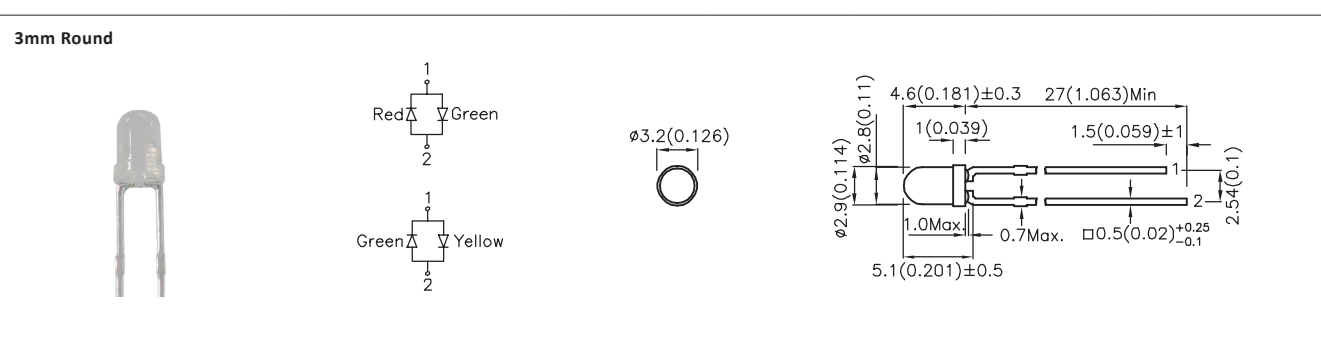
## RECTANGULAR

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=10mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		
<b>2x5mm</b>						
 <p>Technical drawing of a 2x5mm LED showing a perspective view, a top view with a width of 2(0.079)mm, and a side view with dimensions: 5(0.197)mm height, 7(0.276)mm chip width, 1.0Max. mm chip length, 0.7Max. mm cathode length, 27(1.063)Min. mm total length, 1.5(0.059)±1 mm cathode offset, and 2.54(0.1)mm lead length. A square pad of 0.5(0.02)<sup>+0.25</sup><sub>-0.1</sub> mm is also shown.</p>						
SUR18D	◆ GaAsP/GaP(Red)	627	2	3.8	140°	Red Diffused
SUY18D	◆ GaAsP/GaP(Yellow)	590	1.2	3.8	140°	Yellow Diffused
SUG18D	◆ GaP(Green)	565	1.2	4.8	140°	Green Diffused

## FLAT TOP

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=10mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		
<b>2mm</b>						
 <p>Technical drawing of a 2mm Flat Top LED showing a perspective view, a top view with a width of 2.5(0.098)mm and a height of 4.8(0.189)mm, and a side view with dimensions: 8(0.315)mm chip width, 3.5(0.138)mm chip length, 27(1.063)Min. mm total length, 1.5(0.059)±1 mm cathode offset, and 2.54(0.1)mm lead length. A square pad of 0.5(0.02)<sup>+0.25</sup><sub>-0.1</sub> mm is also shown.</p>						
LUR13D	◆ GaAsP/GaP(Red)	627	6	11	50°	Red Diffused
LUY13D	◆ GaAsP/GaP(Yellow)	590	4	7	50°	Yellow Diffused
LUG13D	◆ GaP(Green)	565	6	11	50°	Green Diffused


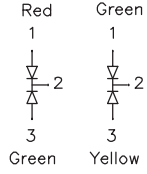
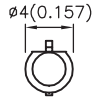
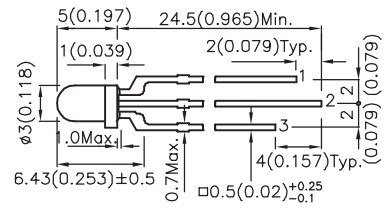
## BI-COLOR & BI-POLAR

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=20mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		
<b>3mm Round</b>						
 <p>Technical drawing of a 3mm Round LED showing a perspective view, a top view with a diameter of 3.2(0.126)mm, and a side view with dimensions: 4.6(0.181)±0.3 mm chip width, 1(0.039) mm chip length, 27(1.063)Min. mm total length, 1.5(0.059)±1 mm cathode offset, and 2.54(0.1)mm lead length. A square pad of 0.5(0.02)<sup>+0.25</sup><sub>-0.1</sub> mm is also shown.</p>						
LUGR37M	◆ GaAsP/GaP(Red)	627	4	9	60°	White Diffused
	◆ GaP(Green)	565	6	13		
LUGY37M	◆ GaP(Green)	565	6	13	60°	White Diffused
	◆ GaAsP/GaP(Yellow)	590	4	7		

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.


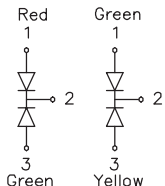
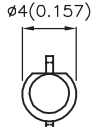
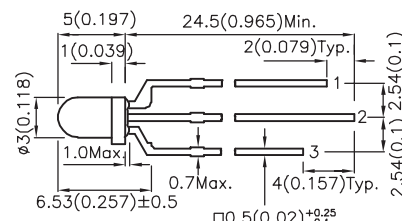
Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=20mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		

**3mm Round**


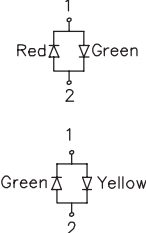
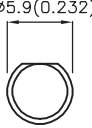
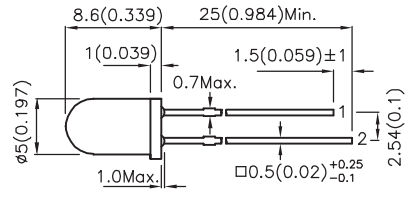
LUGR29M	◆ GaAsP/GaP(Red)	627	10	29	60°	White Diffused
	◆ GaP(Green)	565	20	39		
LUGY29M	◆ GaP(Green)	565	15	39	60°	White Diffused
	◆ GaAsP/GaP(Yellow)	590	10	14		

**3mm Round**


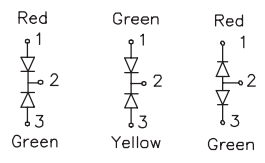

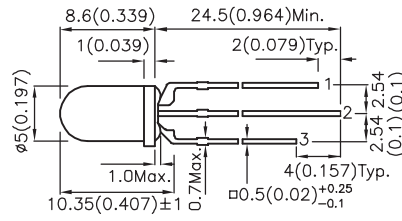
LUGR34M	◆ GaAsP/GaP(Red)	627	8	15	60°	White Diffused
	◆ GaP(Green)	565	20	39		
LMDKVG34M	◆ AlGaInP(Red)	645	80	158	60°	White Diffused
	◆ AlGaInP(Green)	574	60	158		
LUGY34M	◆ GaP(Green)	565	15	29	60°	White Diffused
	◆ GaAsP/GaP(Yellow)	590	10	19		

**5mm Round**

LUGR58M	◆ GaAsP/GaP(Red)	627	6	13	30°	White Diffused
	◆ GaP(Green)	565	12	29		
LUGY58M	◆ GaP(Green)	565	12	29	30°	White Diffused
	◆ GaAsP/GaP(Yellow)	590	4	9		

**5mm Round**

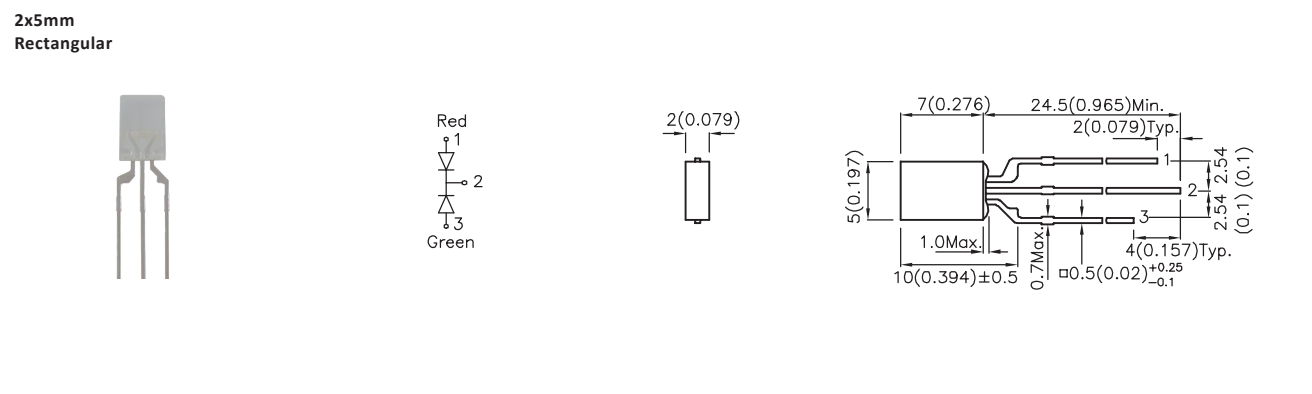





LMDKVG59MCA

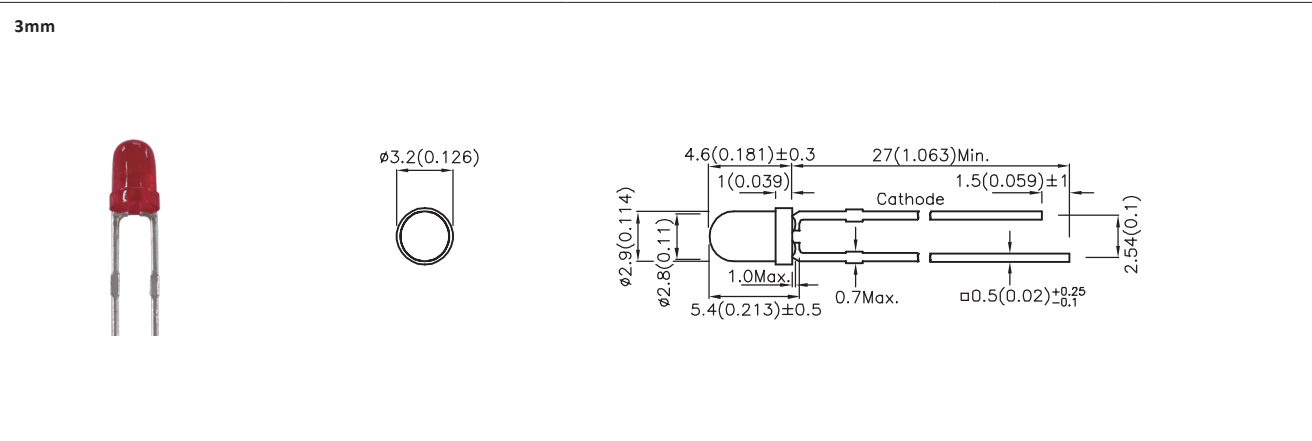
LUGR59M	◆ GaAsP/GaP(Red)	627	20	39	30°	White Diffused
	◆ GaP(Green)	565	20	59		
LMDKVG59M	◆ AlGaInP(Red)	645	200	397	30°	White Diffused
	◆ AlGaInP(Green)	574	80	178		
LMDKVG59MCA	◆ AlGaInP(Red)	645	18	39	60°	White Diffused
	◆ AlGaInP(Green)	574	8	19		
LUGY59M	◆ GaP(Green)	565	50	98	30°	White Diffused
	◆ GaAsP/GaP(Yellow)	590	20	39		

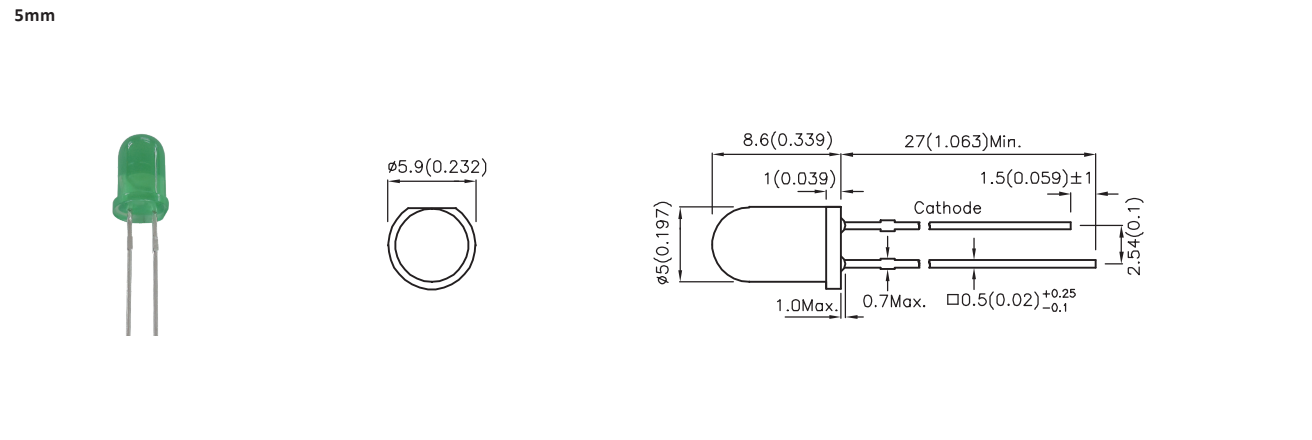
1. Dimension Unit: mm(inches), Tolerance:  $\pm 0.25mm$  (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.



Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=20mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		
<p><b>2x5mm Rectangular</b></p>  <p>Diagram showing a 2x5mm rectangular LED with three leads. The top lead is labeled 'Red' and the bottom lead is labeled 'Green'. The middle lead is unlabeled. Dimensions include a total length of 24.5(0.965)Min., a width of 7(0.276), and a lead length of 2(0.079)Typ. Other dimensions include 5(0.197), 1.0Max., 10(0.394)±0.5, 0.7Max., 0.5(0.02)<sup>+0.25</sup><sub>-0.1</sub>, 4(0.157)Typ., 2.54, and 2.54(0.1)(0.1).</p>						
SUGR47M	<ul style="list-style-type: none"> <li>◆ GaAsP/GaP(Red)</li> <li>◆ GaP(Green)</li> </ul>	627	4	9	140°	White Diffused
		565	3	8		
SMDKVG47M	<ul style="list-style-type: none"> <li>◆ AlGaInP(Red)</li> <li>◆ AlGaInP(Green)</li> </ul>	645	30	54	140°	White Diffused
		574	15	29		

LOW CURRENT

Part Number	Chip Structure (Emitted Color)	$\lambda_{peak}$ (nm)	Intensity(mcd) $I_f=2mA$		Viewing Angle 2 $\theta$ 1/2	Lens
			Min.	Typ.		
<p><b>3mm</b></p>  <p>Diagram showing a 3mm LED with two leads. The top lead is labeled 'Cathode'. Dimensions include a diameter of <math>\phi 3.2(0.126)</math>, a total length of 27(1.063)Min., and a lead length of 1.5(0.059)±1. Other dimensions include <math>\phi 2.9(0.114)</math>, 4.6(0.181)±0.3, 1(0.039), 1.0Max., 5.4(0.213)±0.5, 0.7Max., and <math>\square 0.5(0.02)^{+0.25}_{-0.1}</math>.</p>						
CUR32D	◆ GaAsP/GaP(Red)	627	0.5	1	50°	Red Diffused
CUG32D	◆ GaP(Green)	565	1	2.8	50°	Green Diffused

<p><b>5mm</b></p>  <p>Diagram showing a 5mm LED with two leads. The top lead is labeled 'Cathode'. Dimensions include a diameter of <math>\phi 5.9(0.232)</math>, a total length of 27(1.063)Min., and a lead length of 1.5(0.059)±1. Other dimensions include <math>\phi 5(0.197)</math>, 8.6(0.339), 1(0.039), 1.0Max., 0.7Max., and <math>\square 0.5(0.02)^{+0.25}_{-0.1}</math>.</p>						
CMR53D	◆ GaAlAs(Red)	655	4	7	30°	Red Diffused
CUR53D	◆ GaAsP/GaP(Red)	627	0.7	1.8	30°	Red Diffused
CUY53D	◆ GaAsP/GaP(Yellow)	590	1	2.8	30°	Yellow Diffused
CUG53D	◆ GaP(Green)	565	1.2	2.8	30°	Green Diffused

1. Dimension Unit: mm(inches), Tolerance: ±0.25mm (0.01").  
 2. Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.  
 3. We reserve the right to make changes at any time to enhance the design and / or performance of the product.