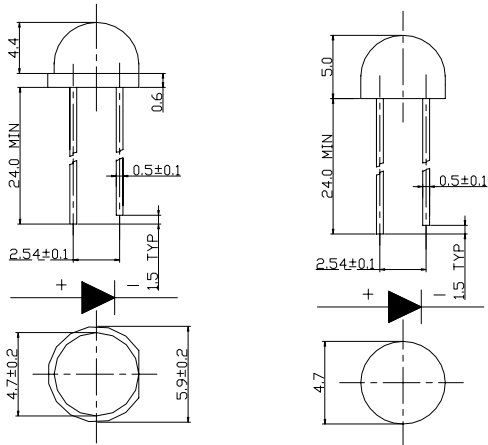


■ **Outline Dimension(mm)**



NOTES: 1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS +/-0.25, UNLESS OTHERWISE NOTED.  
 2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.5mm DOWN THE LEADS.  
 3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5mm MAX.

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 3. BURR AROUND BOTTOM OF EPOXY MAY BE 0.5mm MAX.

■ **Far Field Pattern**

50% Power Angle : 90°/120°/180°

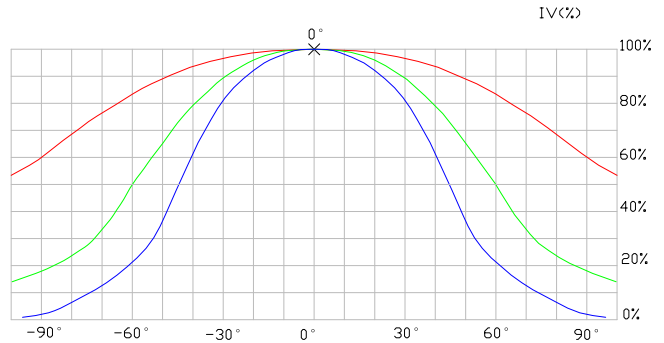


FIG.6 FAR FIELD PATTERN

■ **Optical-Electrical Characteristics**

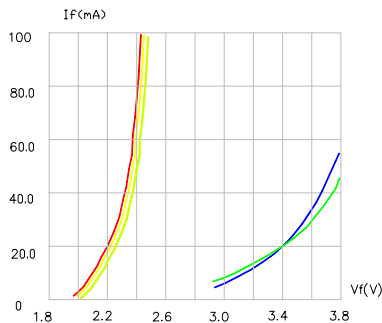


FIG.1 FORWARD CURRENT VS. FORWARD VOLTAGE

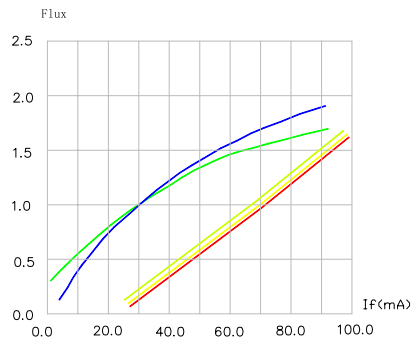


FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

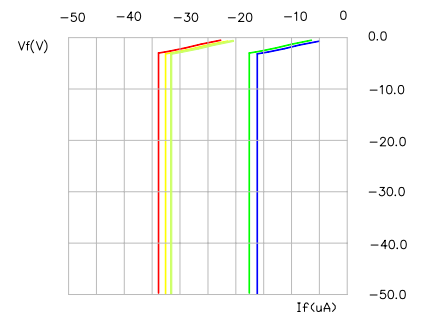


FIG.3 REVERSE CURRENT VS. REVERSE VOLTAGE.

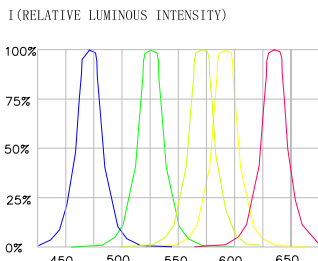


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

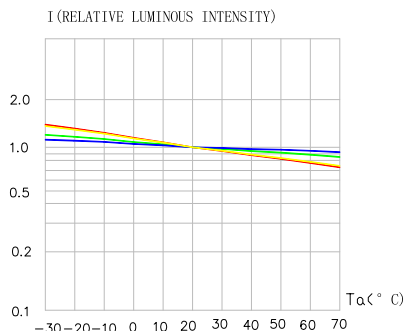


FIG.5 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE.

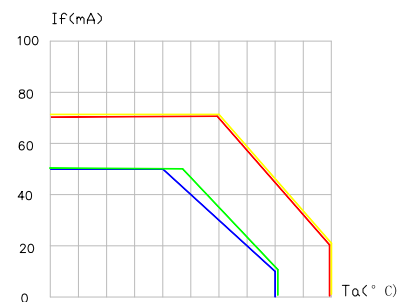
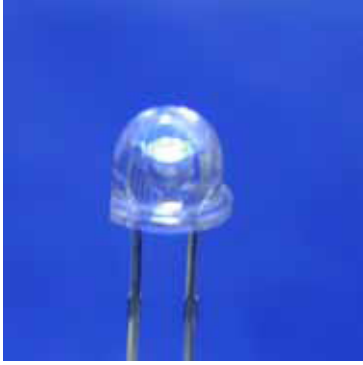


FIG.5 MAXIMUM FORWARD DC CURRENT VS. AMBIENT TEMPERATURE (Tjmax=95° C).


**. Features**

- . Long life
- . Reliable and rugged
- . Low power dissipation.

**. Application**

- . Illuminations;
- . Lighting box
- . Indicator.

Part NO.	Viewing Angle (deg)	Size	Lens Color	Chip			IV(mcd) (IF=20mA)		Vf(V) (IF=20mA)	
				Material	Emitting Color	$\lambda D(nm)(IF=20mA)$	Min	Typ	Typ	Max
WCN-540UR1-90N	90	5mm	Water clear	AllnGaP	Red	620	800	1000	2.0	2.4
WCN-540HY1-90N	90	5mm	Water clear	AllnGaP	Yellow	590	800	1000	2.0	2.4
WCN-540PG1-90N	90	5mm	Water clear	AllnGaN	Pure Green	525	800	1000	3.3	3.8
WCN-540CB1-90N	90	5mm	Water clear	AllnGaN	Blue	470	800	1000	3.3	3.8
WCN-540WW1-90N	90	5mm	Water clear	AllnGaN	White	---	800	1000	3.3	3.8
WCN-540UR1-120N	120	5mm	Water clear	AllnGaP	Red	620	500	600	2.0	2.4
WCN-540HY1-120N	120	5mm	Water clear	AllnGaP	Yellow	590	500	600	2.0	2.4
WCN-540PG1-120N	120	5mm	Water clear	AllnGaN	Pure Green	525	500	600	3.3	3.8
WCN-540CB1-120N	120	5mm	Water clear	AllnGaN	Blue	470	500	600	3.3	3.8
WCN-540WW1-120N	120	5mm	Water clear	AllnGaN	White	---	500	600	3.3	3.8
WCN-540UR1-180N	180	5mm	Water clear	AllnGaP	Red	620	30	150	2.0	2.4
WCN-540HY1-180N	180	5mm	Water clear	AllnGaP	Yellow	590	30	150	2.0	2.4
WCN-540PG1-180N	180	5mm	Water clear	AllnGaN	Pure Green	525	80	250	3.3	3.8
WCN-540CB1-180N	180	5mm	Water clear	AllnGaN	Blue	470	80	250	3.3	3.8
WCN-540WW1-180N	180	5mm	Water clear	AllnGaN	White	---	60	200	3.3	3.8