

Outline Dimension(mm)

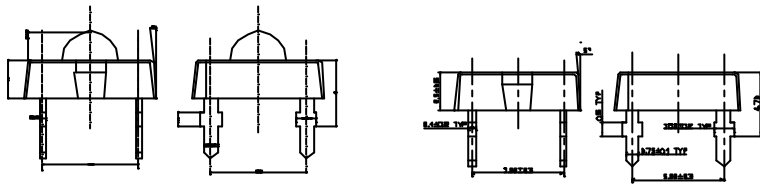


Fig.1

Fig.2

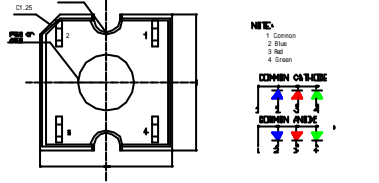


Fig.3

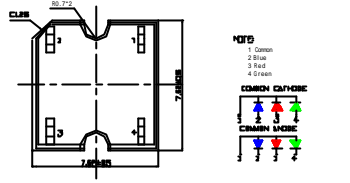
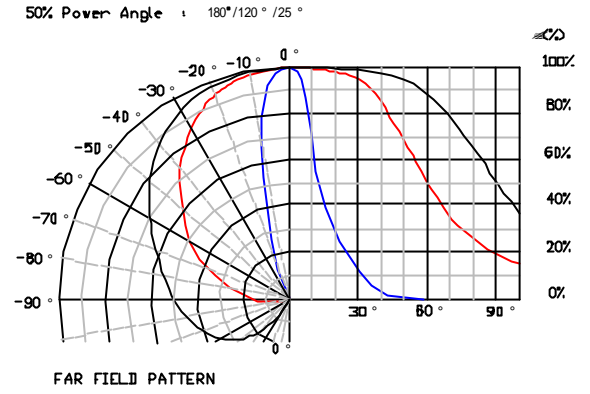


Fig.4

Far Field Pattern



Optical-Electrical Characteristics

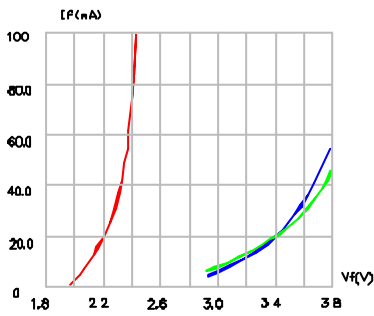


FIG.1 FORWARD CURRENT VS FORWARD VOLTAGE

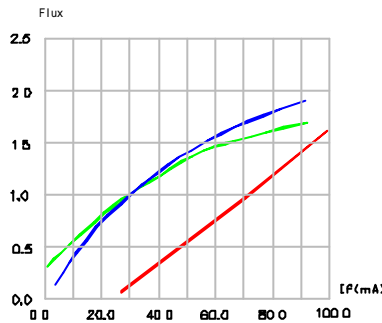


FIG.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

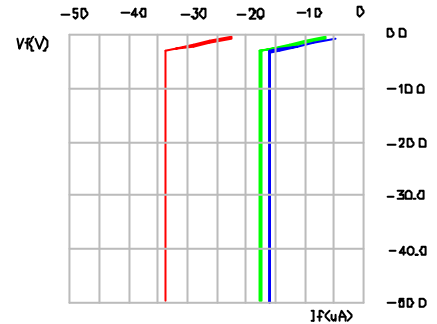


FIG.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

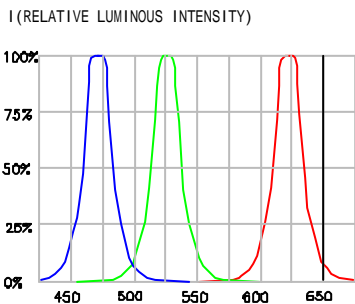


FIG.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

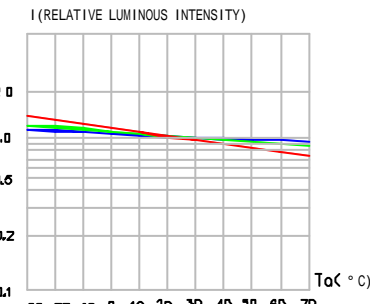


FIG.5 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE.

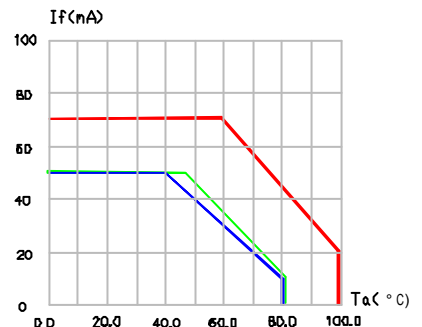
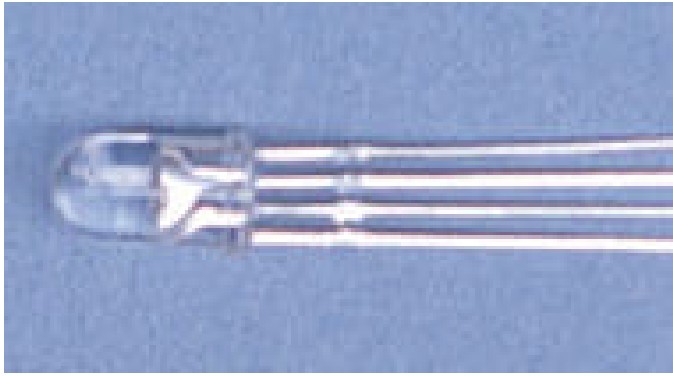


FIG.5 MAXIMUM FORWARD DC CURRENT VS. AMBIENT TEMPERATURE (Tjmax=95 °C).


Features

- . Long life
- . Reliable and rugged
- . Low power dissipation
- . I.C. compatible.

Application

- . Variable Color Indicators
- . Full Color Video Screen
- . Variable Message Signs

Information Sign

Part NO.	Size	Viewing Angle (deg)	Lens Color	Chip			? V(lm)(IF=30mA) or IV(mcd) (IF=20mA)		Vf(V) (IF=20mA)		Fig.
				Material	Emitting Color	$\lambda_D(\text{nm})$ (IF=20mA)	Min	Typ	Typ	Max	
WCN-331FC1-120N	3mm	120	Water Clear	GaAlAs	Red	630	0.3	0.5	2.2	2.4	Fig.1
				InGaN	Pure Green	525	1.3	1.5	3.3	3.6	
				InGaN	Blue	470	0.3	0.5	3.3	3.6	
WCN-331FC2-180N	3mm	180	White Diffused	GaAlAs	Red	630	0.3	0.5	2.2	2.4	Fig.1
				InGaN	Pure Green	525	1.3	1.5	3.3	3.6	
				InGaN	Blue	470	0.3	0.5	3.3	3.6	
WCN-531FC1-120N	5mm	120	Water Clear	GaAlAs	Red	630	0.8	1.0	2.2	2.4	Fig.1
				InGaN	Pure Green	525	2.0	3.5	3.3	3.6	
				InGaN	Blue	470	1.0	1.5	3.3	3.6	
WCN-531FC2-180N	5mm	180	White Diffused	GaAlAs	Red	630	0.5	0.8	2.2	2.4	Fig.1
				InGaN	Pure Green	525	1.0	1.5	3.3	3.6	
				InGaN	Blue	470	0.6	1.0	3.3	3.6	
WCN-532FC1-180N	Flat	180	Water Clear	GaAlAs	Red	630	0.4	0.6	2.2	2.4	Fig.2
				InGaN	Pure Green	525	0.8	1.0	3.3	3.6	
				InGaN	Blue	470	0.5	0.7	3.3	3.6	
WCN-532FC2-180N	Flat	180	White Diffused	GaAlAs	Red	630	0.3	0.5	2.2	2.4	Fig.2
				InGaN	Pure Green	525	0.6	0.8	3.3	3.6	
				InGaN	Blue	470	0.4	0.6	3.3	3.6	
WCN-533FC1-50N	5mm	25	Water Clear	GaAlAs	Red	630	400	800	2.2	2.4	Fig.3
				InGaN	Pure Green	525	2000	3000	3.3	3.6	
				InGaN	Blue	470	800	1000	3.3	3.6	
WCN-533FC2-180N	5mm	180	White Diffused	GaAlAs?	Red	630	80	120	2.2	2.4	Fig.3
				InGaN	Pure Green	525	200	300	3.3	3.6	
				InGaN	Blue	470	100	200	3.3	3.6	
WCN-534FC1-120N	5mm	120	Water Clear	GaAlAs	Red	630	120	200	2.2	2.4	Fig.4
				InGaN	Pure Green	525	800	1200	3.3	3.6	
				InGaN	Blue	470	200	400	3.3	3.6	
WCN-534FC2-180N	5mm	180	White Diffused	GaAlAs	Red	630	80	120	2.2	2.4	Fig.4
				InGaN	Pure Green	525	200	300	3.3	3.6	
				InGaN	Blue	470	100	200	3.3	3.6	