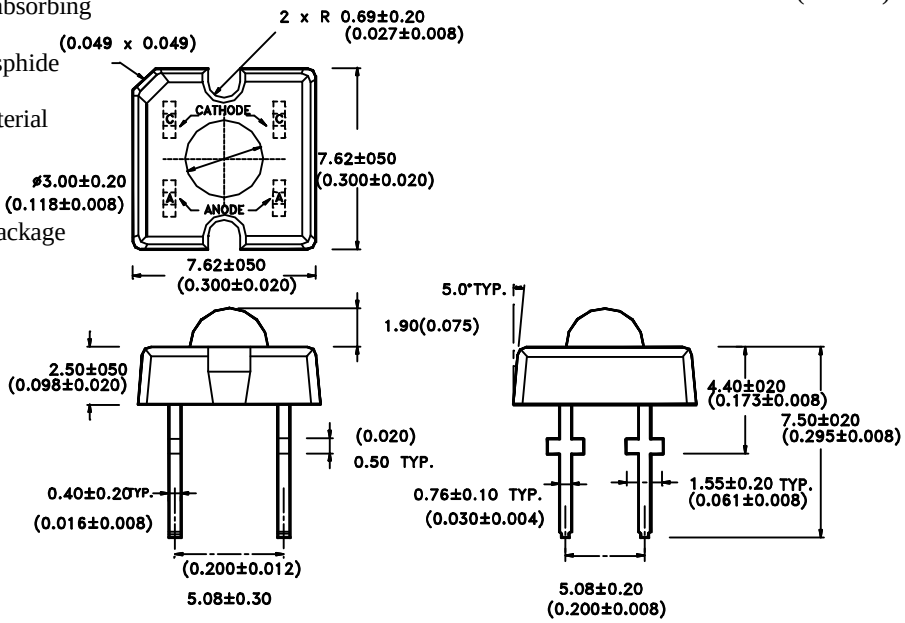
Description

The MVL-904HUYL , utilizes the latest absorbing substrate aluminum indium gallium phosphide AlInGaP LED technology. This LED material has outstanding light output efficiency over a wide range of drive current. The package is water clear type.

Package Dimensions

Unit: mm (inches)



NOTES:

1.Dimensions are in millimeter(inches).
2.Dimensions without tolerances are nominal.

Features

- Ultra - brightness
- Low power consumption
- TTL compatible
- Reliable

Absolute Maximum Ratings

'@ T_A=25°C

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P_{ad}	150	mW
Continuous Forward Current	I_{af}	80	mA
Reverse Voltage	V_R	10	V
Operating Temperature Range	T_{opr}	-40°C to +100°C	
Storage Temperature Range	T_{stg}	-55°C to +100°C	
Solder temperature 1.6 mm from body for 5 seconds at 260°C			

Optical-Electrical Characteristics

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Total Flux	I_F=70mA	I_V	900	2000	-	mlm
Forward Voltage	I_F=70mA	V_F	-	2.3	2.6	V
Reverse Current	V_R=10V	I_R	-	-	100	μA
Wavelength	I_F=20mA	λ_p/λ_d	-	592/590	-	nm
Viewing Angle	I_F=20mA	$2\theta_{1/2}$	-	40	-	deg.

Typical Optical-Electrical Characteristic Curves

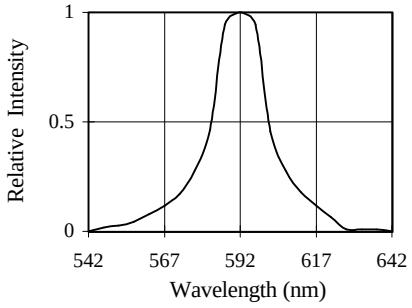


FIG.1 SPECTRAL DISTRIBUTION

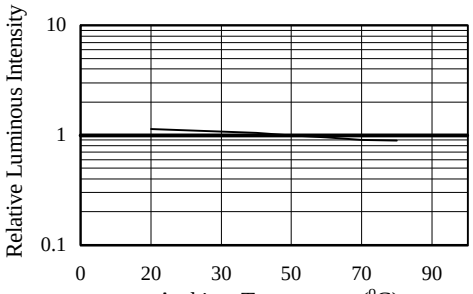


FIG.2 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

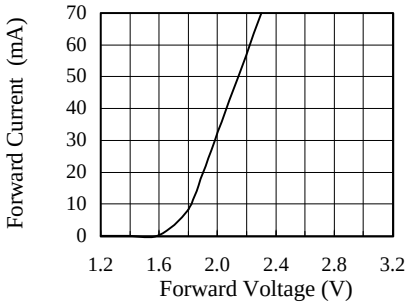


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

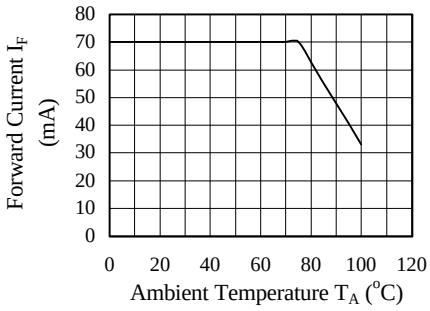


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

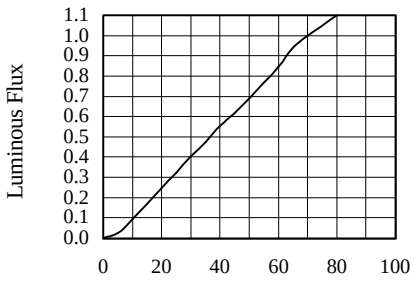


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

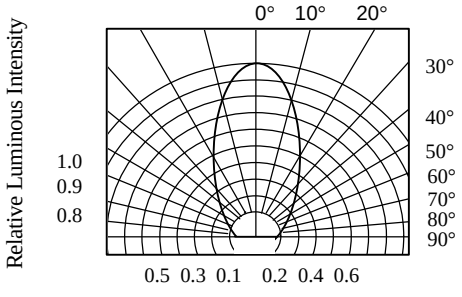


FIG.6 RADIATION DIAGRAM