

# SIDE LOOK PACKAGE SOLID STATE LAMP

## MSL-824HG-G

### Description

The MSL-824HG-G is designed based on in an industry standard package for ease of handing and use.

The package is water clear epoxy within white plastic.

### Applications

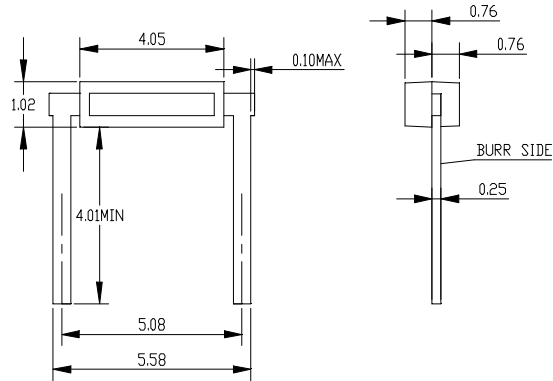
- LCD backlighting
- Symbol backlighting
- Front panel indicator

### Features

- High performance
- Excellent chip to chip consistency
- High reliability

### Package Dimensions

Units : mm



Notes :

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.1$  mm unless otherwise noted.
3. Lead plating is gold.

### Absolute Maximum Ratings

@  $T_A = 25^\circ\text{C}$

Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	$P_{ad}$	100	mW
Continuous Forward Current	$I_{af}$	30	mA
Reverse Current ( $V_R = 5V$ )	$I_R$	10	$\mu A$
Operating Temperature Range	$T_{opr}$	-40°C to +85°C	
Storage Temperature Range	$T_{stg}$	-40°C to +85°C	
Lead Soldering Temperature 260°C for 5 second (2.0mm From Body)			

**UNI**

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**Optical-Electrical Characteristics**

@ T<sub>A</sub>=25°C

PART NO	Color		Dominant Wave Length $\lambda_D(\text{nm})$	Spectral Halfwidth $\Delta\lambda(\text{nm})$	Forward Voltage @ I <sub>F</sub> =20mA (V)		Luminous Intensity @ I <sub>F</sub> =20mA (mcd)		Viewing Angle 2θ <sub>1/2</sub> (deg)
	Emitted	Lens			TYP	MAX	MIN	TYP	
MSL-824HG-G	Green	Water Clear	570	15	2.2	2.5	30	45	100

**Typical Optical-Electrical Characteristic Curves**

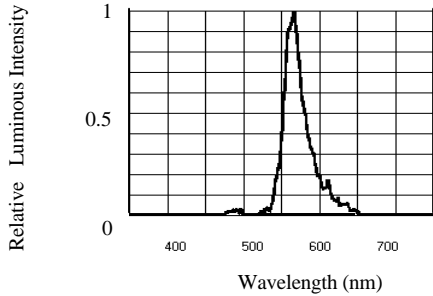


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

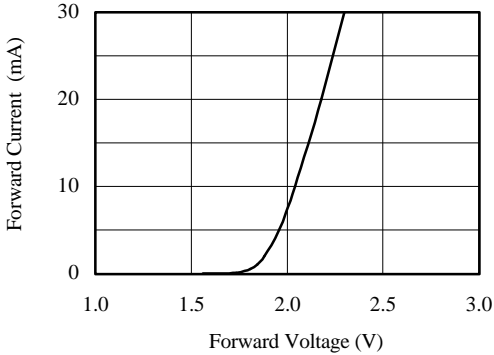


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

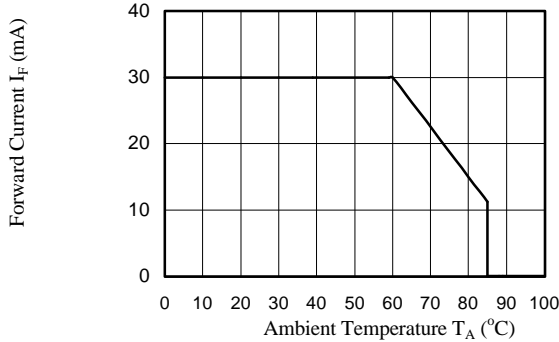


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

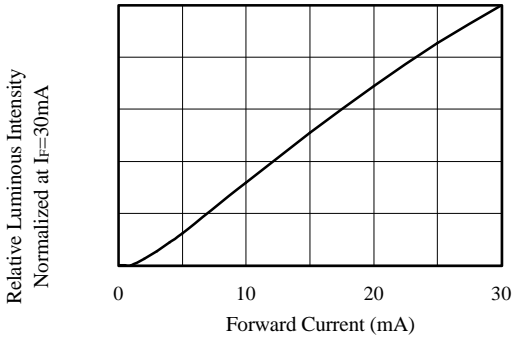


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

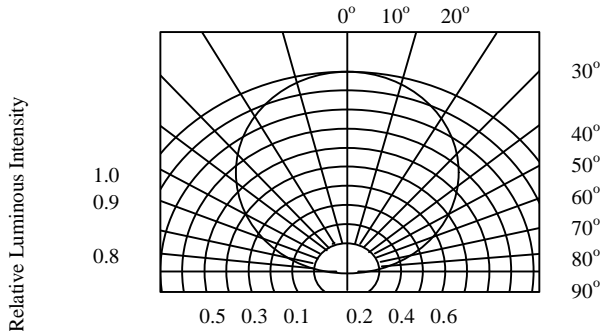


FIG.5 RADIATION PATTERN DIAGRAM