

Description

The MSL-154UOL, a SUPER ORANGE source Chip LED device, is designed in an industry Standard package suitable for SMT assembly method. It utilizes AlGaInP on GaAs LED chip technology and water clear epoxy package.

Applications

- Small Size
- Industry Standard Footprint(1206)
- Compatible with IR Solder process
- Available in 8 mm Tape on 7"(178mm)

Diameter Reels

Features

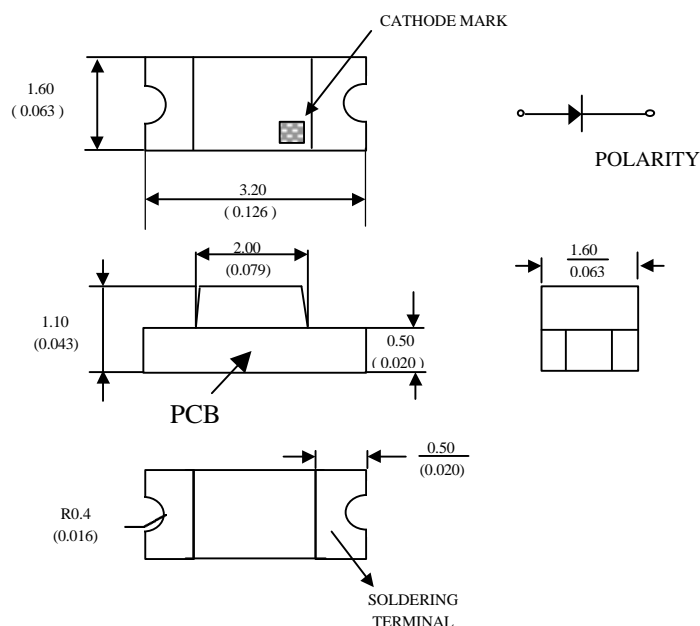
- Push-Button Backlighting
- LCD Backlighting
- Symbol Backlighting
- Front Panel Indicator

Absolute Maximum Ratings

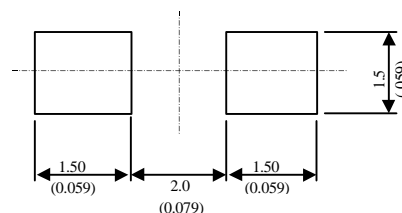
@ $T_A=25^{\circ}\text{C}$

Parameter	Symbol	Maximum Rating	Unit
Peak Forward Current(1/10 Duty Cycle@1KHz)	I_{FP}	100	mA
DC Forward Current	I_F	25	mA
Power Dissipation	P_D	65	mW
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{OPR}	-25°C to $+80^{\circ}\text{C}$	
Storage Temperature Range	T_{STG}	-30°C to $+85^{\circ}\text{C}$	

Package Dimensions



Recommended Solder Patterns



NOTE:

1. All dimensions are in millimeter (inches)
2. Tolerance is $\pm 0.1\text{mm}$ (.004") unless otherwise specified.

Optical-Electrical Characteristics

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

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	$I_F=20\text{mA}$	I_V	40	80	-	mcd
Forward Voltage	$I_F=20\text{mA}$	V_F	-	2.1	2.4	V
Reverse Current	$V_R=5\text{V}$	I_R	-	-	10	μA
Peak/Dominant Wavelength	$I_F=20\text{mA}$	λ_p/λ_d	-	630/625	-	nm
Spectral Linewidth	$I_F=20\text{mA}$	$\Delta\lambda$	-	20	-	nm
Viewing Angle	$I_F=20\text{mA}$	$2\theta_{1/2}$	-	130	-	deg.

Typical Optical-Electrical Characteristic Curves

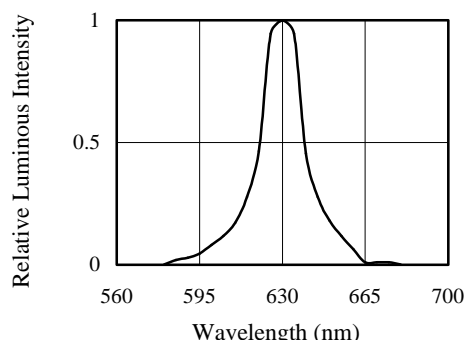


FIG.1 RELATIVE INTENSITY LUMINOUS VS. WAVELENGTH

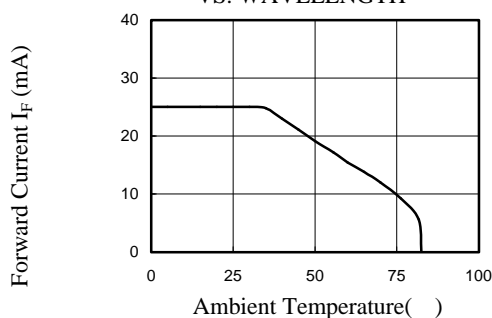


FIG. 3 FORWARD CURRENT VS. AMBIENT TEMPERATURE.

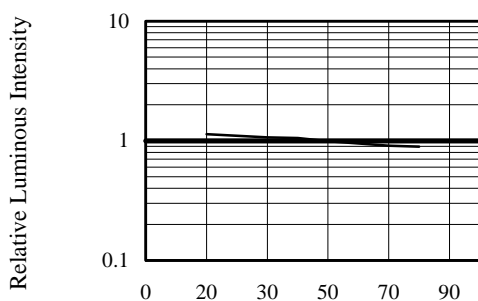


FIG.5 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

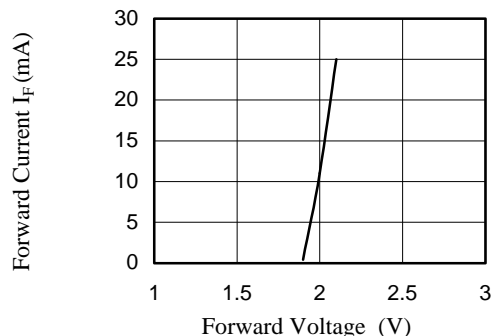


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE.

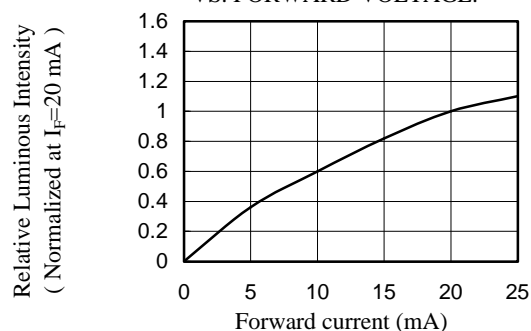


FIG. 4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

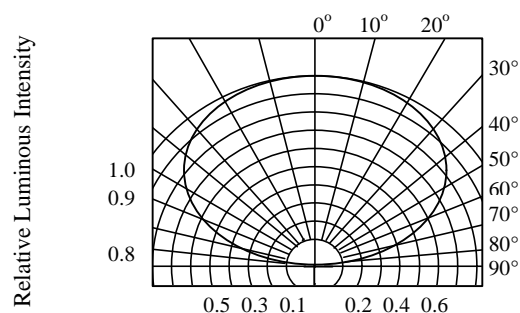


FIG.6 RADIATION DIAGRAM