

T-1 3/4 PACKAGE SOLID STATE LAMP

查询“MVL-514HTG”供应商

MVL-514HTG

Description

The MVL-514HTG, a Green source color device, is made with InGaN on Sapphire substrate LED die. The package is T-1 3/4 (5mm) water clear plastic lens package.

Applications

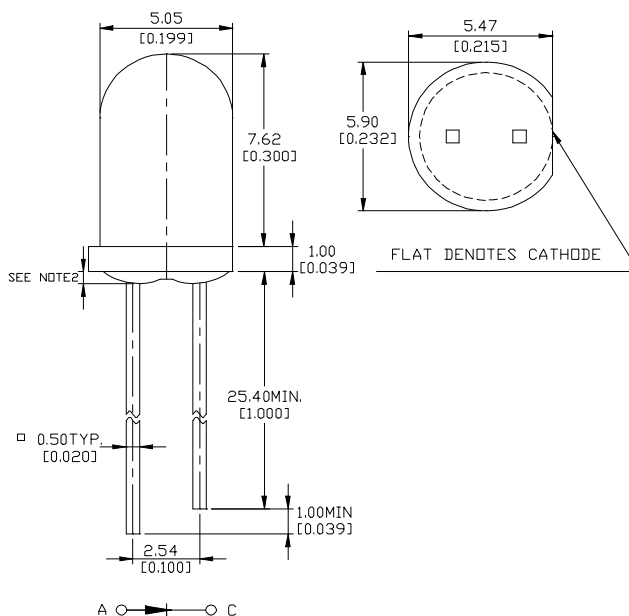
- Full color displays & moving message signs
- Solid state incandescent replacement bulbs
- High ambient panel indicators
- Medical & Analytical instruments

Features

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

Package Dimensions

Unit: mm (inches)



Notes :

1. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
2. Protruded resin under flange is 0.8 mm (.031") max.
3. Lead spacing is measured where the leads emerge from the package.

Absolute Maximum Ratings

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

Parameter	Symbol	Maximum Rating	Unit
Peak Forward Current(1/10 Duty Cycle@1KHz)	I_{pf}	100	mA
Continuous Forward Current	I_{af}	30	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_{opr}	-20°C to $+80^\circ\text{C}$	
Storage Temperature Range	T_{stg}	-30°C to $+100^\circ\text{C}$	
Electrostatic Discharge Threshold ^{Note 1}		300 V	

Notes: 1. Product resistance to electrostatic discharge (ESD) is measured by simulating ESD using a rapid avalanche energy test (RAET).

The RAET procedures are designed to approximate the maximum ESD ratings shown. Seller gives no other assurances regarding the ability of Products to withstand ESD.

Uni

Unity Opto Technology Co., Ltd.

01/09/2002

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	1000	2200	-	mcd
Forward Voltage	$I_F=20\text{mA}$	V_F	-	3.5	4.2	V
Reverse Current	$V_R=5\text{V}$	I_R	-	-	100	μA
Dominant Wavelength	$I_F=20\text{mA}$	λ_d	-	525	-	nm
Viewing Angle	$I_F=20\text{mA}$	$2\theta_{1/2}$	-	30	-	deg.

Typical Optical-Electrical Characteristic Curves

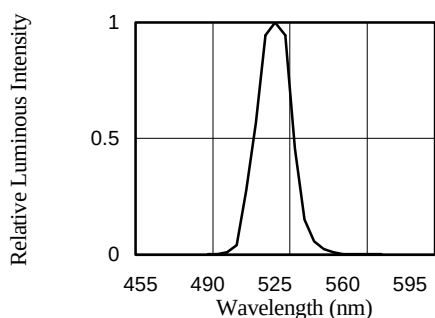


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

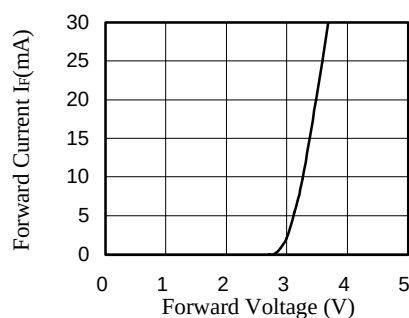


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

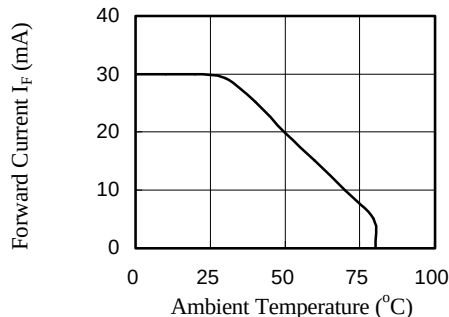


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

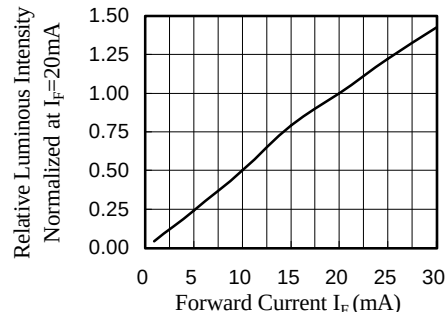


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

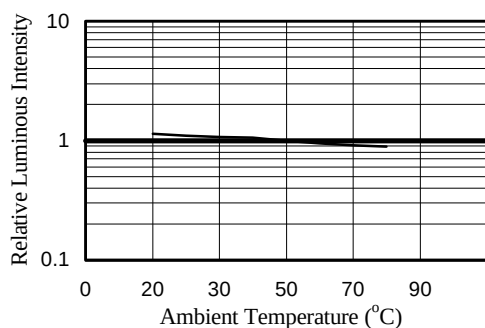


FIG.5 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

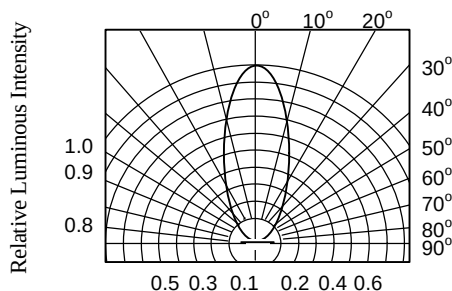


FIG.6 RADIATION DIAGRAM