

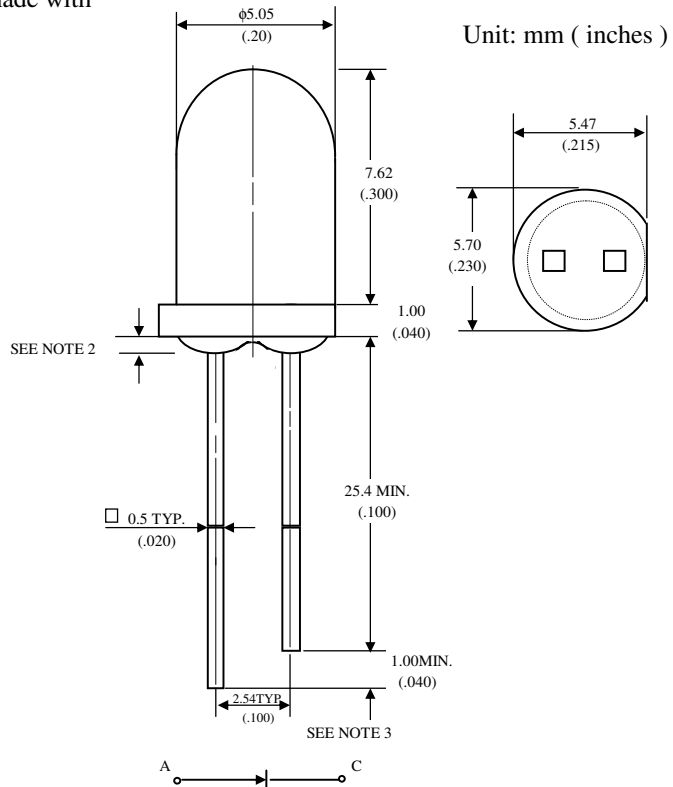
T-1 3/4 PACKAGE
SOLID STATE LAMP

MVL-514SW-T

Description

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

Package Dimensions



- 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.

Applications

- Push-button backlighting
- LCD backlighting
- Symbol backlighting
- Front panel indicator
- Flashlight

Features

- High Luminous intensity
- High efficiency
- General color rendering index

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°C	
Storage Temperature Range	T_{stg}	-30°C to +100°C	
Solder temperature 1.6 mm from body for 3 seconds at 260°C			

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.

Optical-Electrical Characteristics

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I _F =20mA	I _V	9000	11000		mcd
Forward Voltage	I _F =20mA	V _F	-	3.2	4.0	V
Reverse Current	V _R =5V	I _R	-	-	100	μA
Viewing Angle	I _F =20mA	2θ _{1/2}	-	15	-	deg.
C.I.E. 1931	I _F =20mA	x	-	0.31	-	-
Chromaticity Coordinates		y	-	0.32	-	-

Typical Optical-Electrical Characteristic Curves

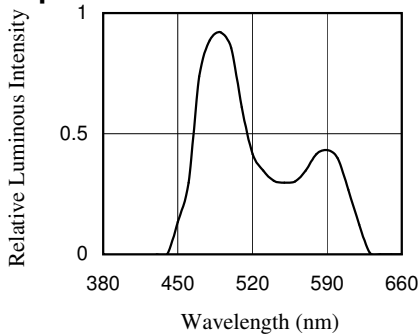


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

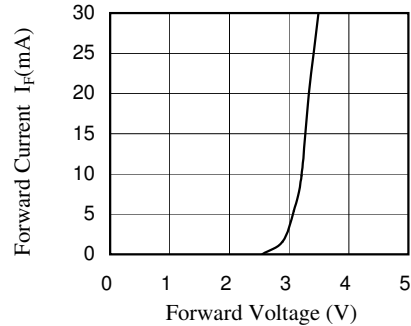


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

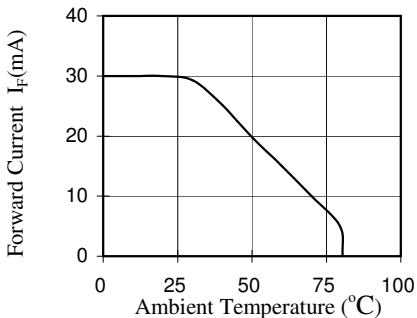


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

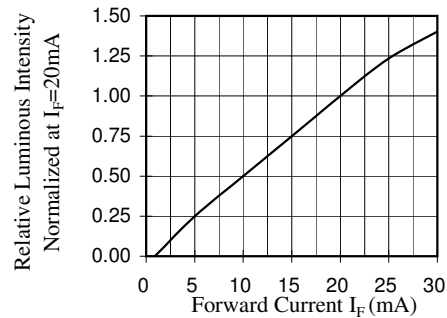


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

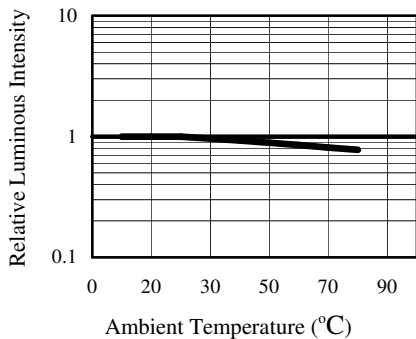


FIG.5 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

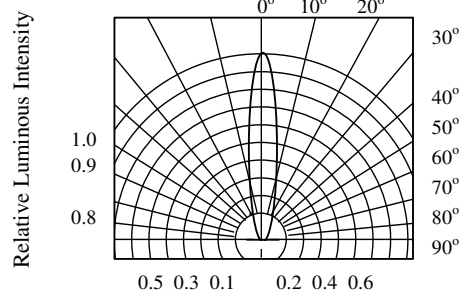


FIG.6 RADIATION DIAGRAM