T-1 PACKAGE
SOLID STATE LAMP

MVL-324TG

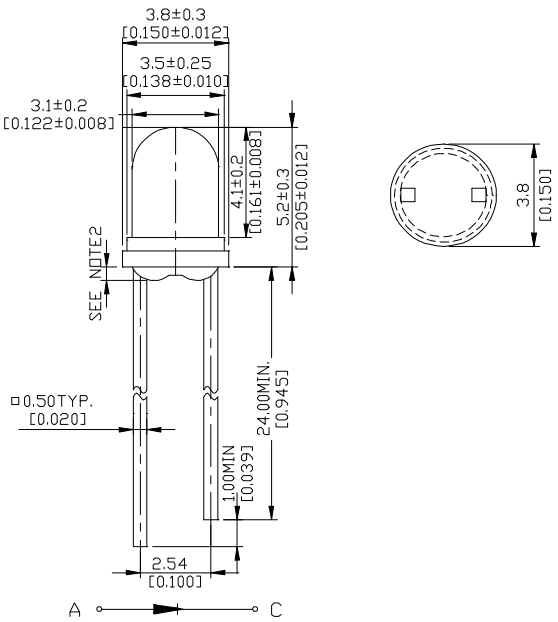
Description

The MVL-324TG, a green source color device, is made with InGaN (on SiC substrate) LED die.

The package is T-1 (ϕ3mm) water clear plastic type.

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.

Applications

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

Features

- High performance - 1.5mW (525nm)
- Superior SiC substrate technology
- Excellent chip to chip consistency
- High reliability

Absolute Maximum Ratings

@ T_A=25°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°Cto +80°C	
Storage Temperature Range	T_{stg}	-30°Cto +100°C	
Electrostatic Discharge Threshold	E_{ot}	1000	V

Optical-Electrical Characteristics

@ T_A=25ºC

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I_F=20mA	I_V	400	900	-	mcd
Forward Voltage	I_F=20mA	V_F	-	3.5	4.0	V
Reverse Current	V_R=5V	I_R	-	-	10	μA
Dominant Wavelength	I_F=20mA	λ_d	-	525	-	nm
Viewing Angle	I_F=20mA	$2\theta_{1/2}$	-	40	-	deg.

Typical Optical-Electrical Characteristic Curves

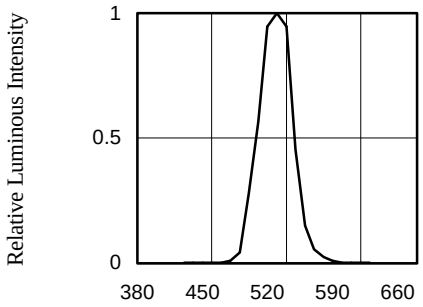


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

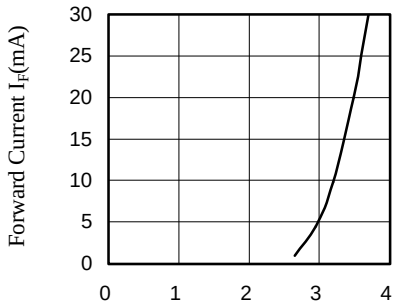


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

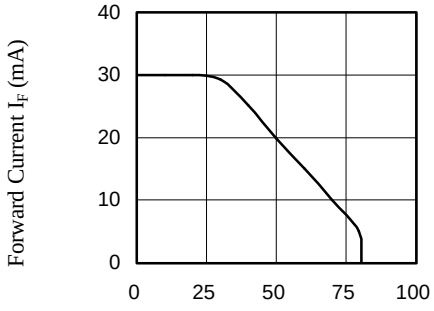


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

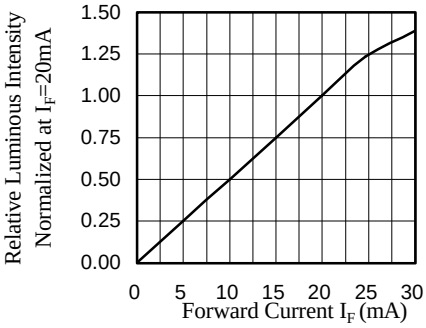


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

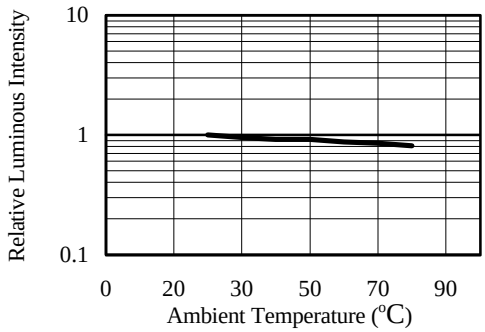


FIG. 5 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

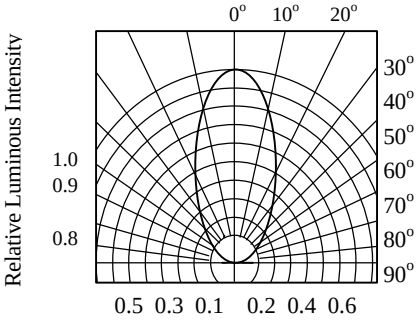


FIG.6 RADIATION DIAGRAM