

ELLIPSE (4.7 X5.7) PACKAGE SOLID STATE LAMP

MVL-663TGK-S

Description

The MVL-663TGK-S, a green source color device, is made with InGaN on SiC substrate LED die.

The package is ellipse transparent green color plastic type.

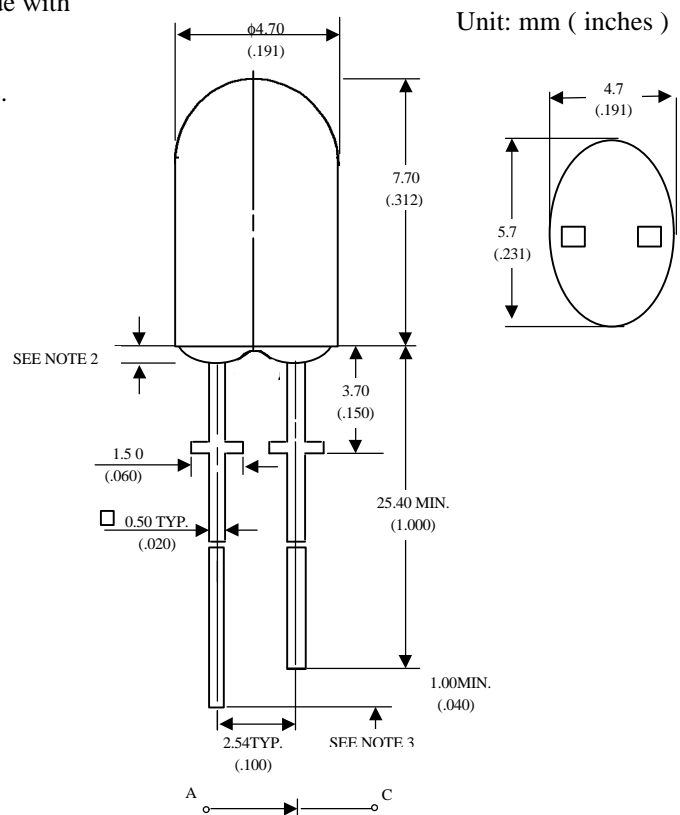
Applications

- 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
- Coting
- Stopper

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.

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	
Electrostatic Discharge Threshold(HBM)	E_{ot}	1000	V
Solder temperature 1.6 mm from body for 5 seconds at 260°C			

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Optical-Electrical Characteristics

@ T_A=25°C

Parameter	Test Conditions	Symbol	Min .	Typ .	Max .	Unit .
Luminous Intensity	I _F =20mA	I _V	350	750	-	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	2θ _{1/2}	-	35/70	-	deg.

Typical Optical-Electrical Characteristic Curves

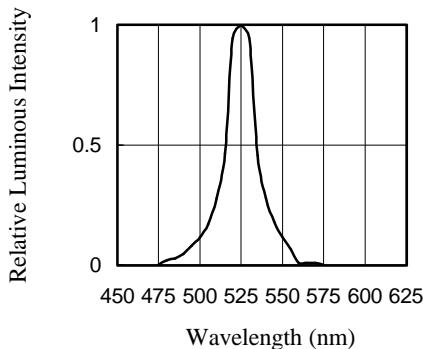


FIG.1 RELATIVE INTENSITY LUMINOUS VS. WAVELENGTH

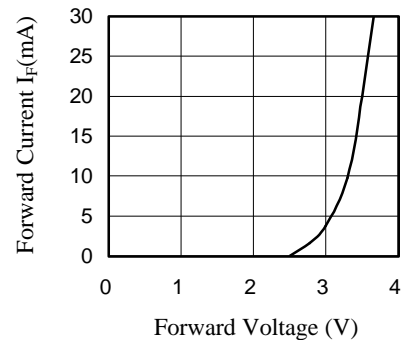


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

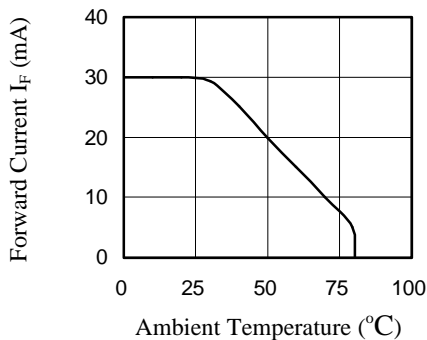


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

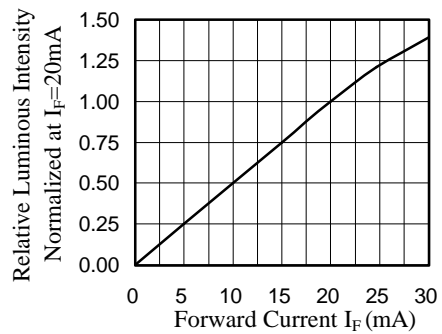


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

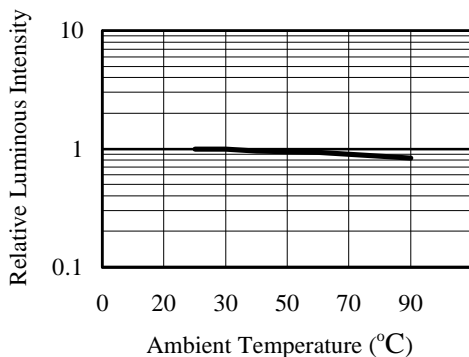


FIG.5 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

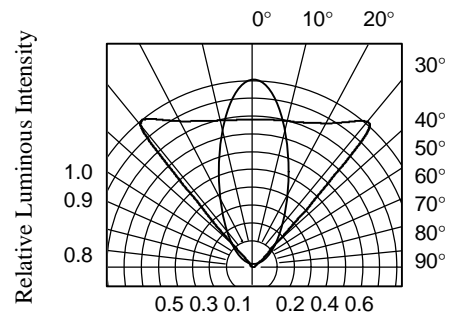


FIG.6 RADIATION DIAGRAM