

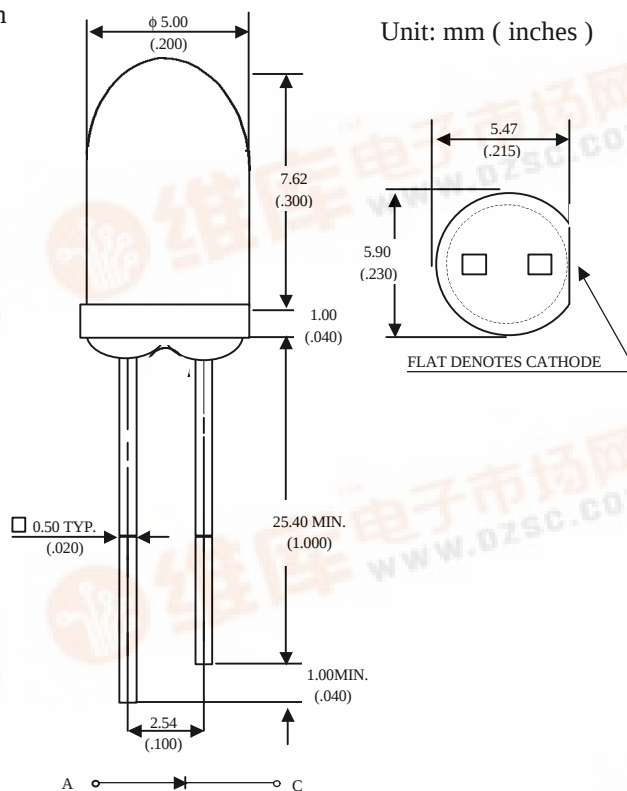
MVL-5A4TG

Package Dimensions

The package is T-1 3/4 (φ 5mm) water clear plastic type.

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

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



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.

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

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	3000	6000	-	mcd
Forward Voltage	$I_F = 20\text{mA}$	V_F	-	3.5	4.0	V
Reverse Current	$V_R = 5\text{V}$	I_R	-	-	10	μA
Dominant Wavelength	$I_F = 20\text{mA}$	λ_d	-	525	-	nm
Viewing Angle	$I_F = 20\text{mA}$	$2\theta_{1/2}$	-	8	-	deg.

Typical Optical-Electrical Characteristic Curves

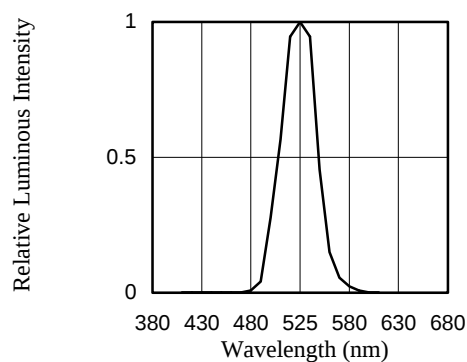


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

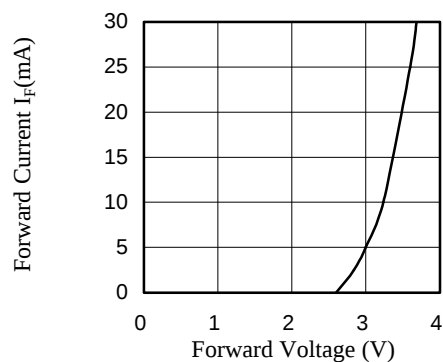


FIG.2 FORWARD CURRENT VS. FORWARD VOLTAGE

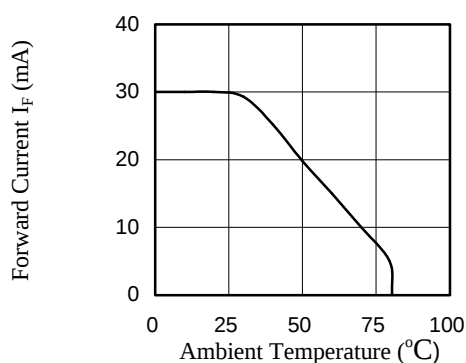


FIG.3 FORWARD CURRENT VS. AMBIENT TEMPERATURE

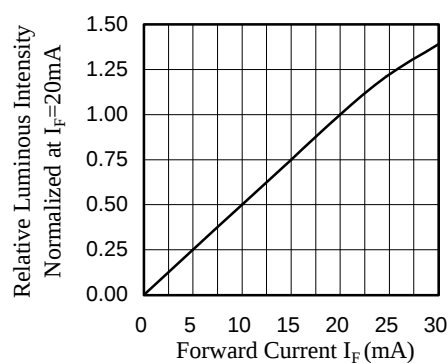


FIG.4 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

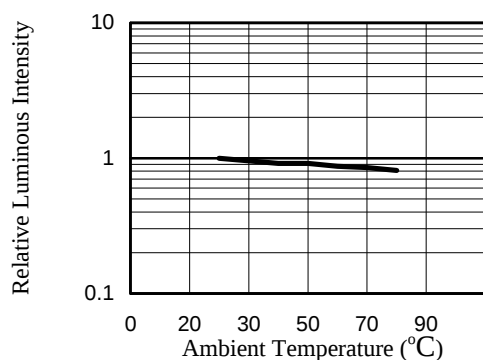


FIG.5 RELATIVE LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

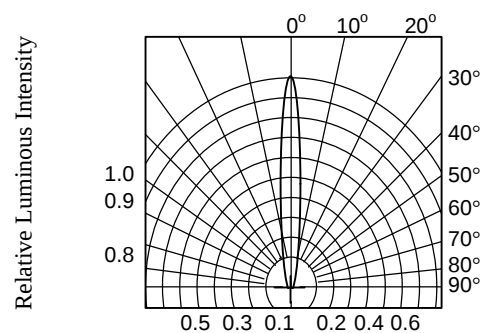


FIG.6 RADIATION DIAGRAM