



**OptoSupply**

*Light It Up*

**3mm Flat Top Color Changing Red & Blue & Green LED**

**OST1MA34E1A**

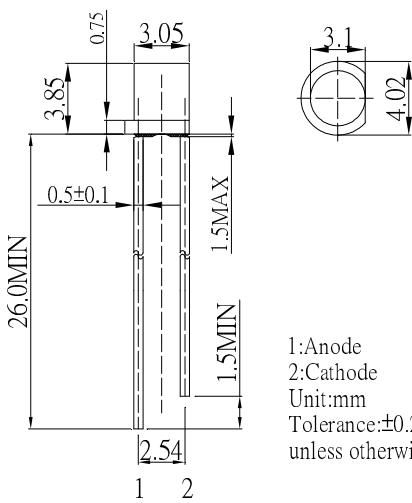
## ■ Features

- High Luminous LEDs
- 3mm Flat Top Standard Directivity
- Full Color Changing Type
- Water Clear Type

## ■ Applications

- Toys
- Games
- Audio
- Other Lighting

## ■ Outline Dimension

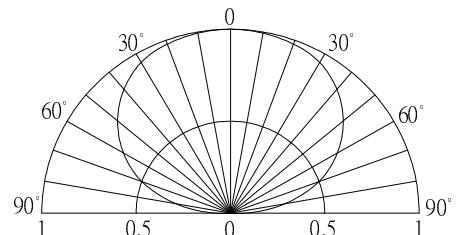


## ■ Absolute Maximum Rating (Ta=25°C)

(Ta=25°C)

Item	Symbol	Value	Unit
Power Supply	Voltage	5.0	V
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Lead Soldering Temperature	Tsol	260°C/5sec	°C

## ■ Directivity



## ■ Electrical -Optical Characteristics (Ta=25°C)

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	Vdd	I <sub>F</sub> =20mA	3.8	4.5	5	V
Oscillator Frequency*	Fled	I <sub>F</sub> =20mA	-	33	-	S
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Domi. Wavelength	λ <sub>D</sub> (Red)	I <sub>F</sub> =20mA	620	625	630	nm
	λ <sub>D</sub> (Blue)	I <sub>F</sub> =20mA	465	470	475	nm
	λ <sub>D</sub> (Green)	I <sub>F</sub> =20mA	520	525	530	nm
Luminous Intensity	I <sub>v</sub> (Red)	I <sub>F</sub> =20mA	-	1120	-	mcd
	I <sub>v</sub> (Blue)	I <sub>F</sub> =20mA	-	500	-	mcd
	I <sub>v</sub> (Green)	I <sub>F</sub> =20mA	-	2180	-	mcd
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	-	140	-	deg

\*<sub>1</sub> Tolerance of measurements of dominant wavelength is ±1nm

\*<sub>2</sub> Tolerance of measurements of luminous intensity is ±15%

\*<sub>3</sub> Tolerance of measurements of forward voltage is ±0.1V

\*<sub>4</sub> Tolerance of measurements of Frequency is ±20%

**LED & Application Technologies**



**REACH**  
The new EU chemicals legislation





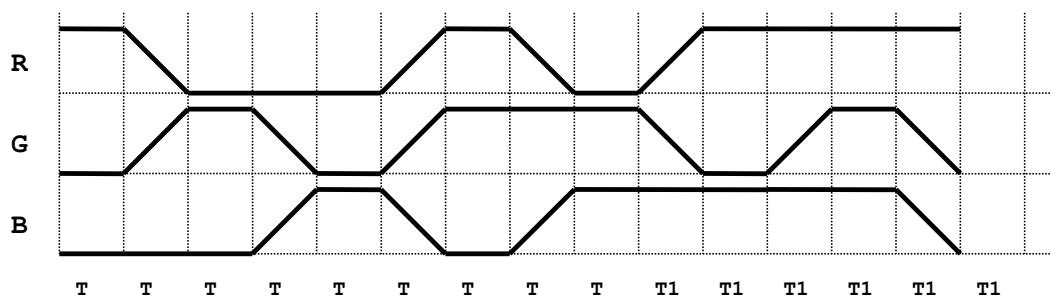
# OptoSupply

*Light It Up*

3mm Flat Top Color Changing Red & Blue & Green LED

OST1MA34E1A

## Flashing Model



T=2.3 se

\*Tolerance of Blinking Cycle is  $\pm 20\%$

LED & Application Technologies



**REACH**  
The new EU chemicals legislation



ATTENTION  
OBSERVE PRECAUTIONS  
ELECTROSTATIC  
SENSITIVE DEVICES

VER A.0