

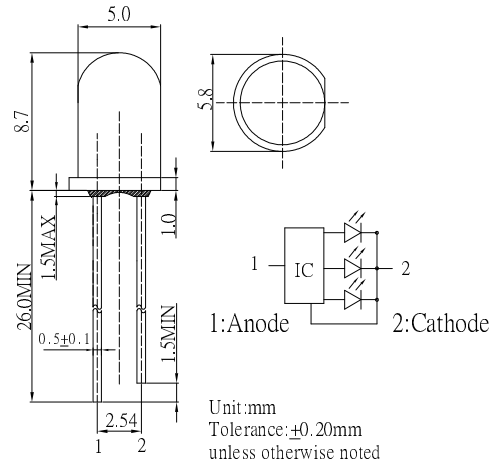
■ **Features**

- High Luminous LEDs
- 5mm Round Standard Directivity
- Color Changing Type
- White Diffused Type

■ **Applications**

- Toys
- Games
- Audio
- Other Lighting

■ **Outline Dimension**

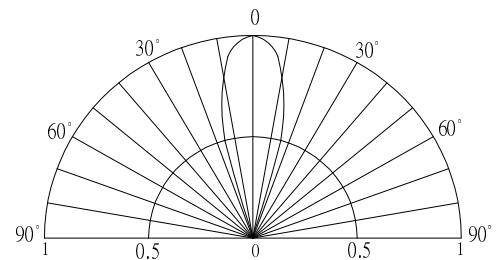


■ **Absolute Maximum Rating**

( $T_a=25^\circ\text{C}$ )

Item	Symbol	Value	Unit
Power Supply	Voltage	5	V
Operating Temperature	Topr	-30 ~ +85	$^\circ\text{C}$
Storage Temperature	Tstg	-40 ~ +100	$^\circ\text{C}$
Lead Soldering Temperature	Tsol	260 $^\circ\text{C}$ /5sec	-

■ **Directivity**



■ **Electrical -Optical Characteristics**

( $T_a=25^\circ\text{C}$ )

Item	Symbol	Conditio	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V <sub>dd</sub>	I <sub>F</sub> =20mA	3.8	4.5	5.0	V
Oscillator Frequency*	F <sub>led</sub>	I <sub>F</sub> =20mA	-	60	-	S
Duty Cycle	Duty	I <sub>F</sub> =20mA	-	-	-	-
Domi. Wavelength*	$\lambda_D$ (Red)	I <sub>F</sub> =20mA	620	625	630	nm
	$\lambda_D$ (Blue)	I <sub>F</sub> =20mA	465	470	475	nm
	$\lambda_D$ (Green)	I <sub>F</sub> =20mA	520	525	530	nm
Luminous Intensity*	I <sub>v</sub> (Red)	I <sub>F</sub> =20mA	3000	4000	-	mcd
	I <sub>v</sub> (Blue)	I <sub>F</sub> =20mA	1560	2180	-	mcd
	I <sub>v</sub> (Green)	I <sub>F</sub> =20mA	5800	7000	-	mcd
50% Power Angle	$2\theta_{1/2}$	I <sub>F</sub> =20mA	-	30	-	deg

\*1 Tolerance of measurements of dominant wavelength is  $\pm 1$ nm

\*2 Tolerance of measurements of luminous intensity is  $\pm 15\%$

\*3 Tolerance of measurements of forward voltage is  $\pm 0.1$ V

\*4 Tolerance of measurements of Frequency is  $\pm 20\%$

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