

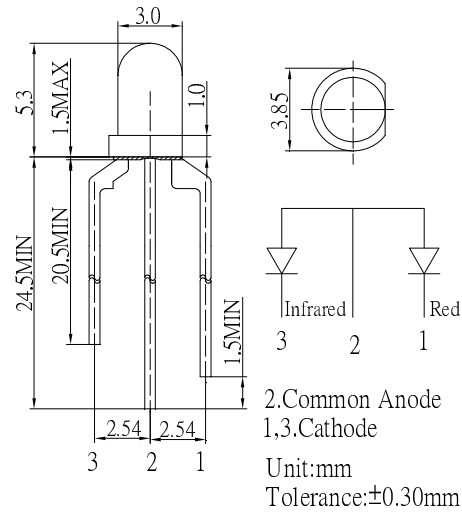
**■Features**

- High Luminous LEDs
- 3mm Round Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

**■Applications**

- Toys
- Games
- Other Lighting

**■Outline Dimension**

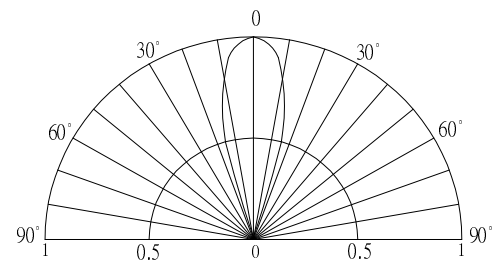


**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value		Unit
		Red	Infrared	
DC Forward Current	I <sub>F</sub>	50	50	mA
Pulse Forward Current*	I <sub>FP</sub>	120	120	mA
Reverse Voltage	V <sub>R</sub>	5	5	V
Power Dissipation	P <sub>D</sub>	130	130	mW
Operating Temperature	T <sub>opr</sub>	-30~ +85		°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100		°C
Lead Soldering Temperature	T <sub>sol</sub>	260°C/5sec		-

**■Directivity**



\*Pulse width Max.10ms Duty ratio max 1/10

**■Electrical -Optical Characteristics**

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V <sub>F</sub> (R)	I <sub>F</sub> =20mA	1.8	2.1	2.6	V
	V <sub>F</sub> (IR)	I <sub>F</sub> =20mA	1.2	1.4	1.8	
DC Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	10	μA
Peak. Wavelength*	λ <sub>P</sub> (Red)	I <sub>F</sub> =20mA	650	660	670	nm
	λ <sub>P</sub> (IR)	I <sub>F</sub> =20mA	830	850	870	nm
Intensity*	I <sub>V</sub> (Red)	I <sub>F</sub> =20mA	3000	4200	-	mcd
	I <sub>e</sub> (IR)	I <sub>F</sub> =20mA	20	30	-	mW/Sr
50% Power Angle	2θ <sub>1/2</sub>	I <sub>F</sub> =20mA	-	30	-	deg

\*1 Peak wavelength Measurement allowance is ±1nm

\*2 Intensity Measurement allowance is ±15%

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