

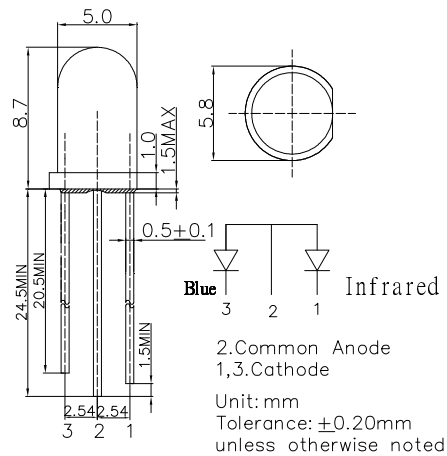
■Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- UV Resistant Epoxy
- Water Clear Type
- Common Anode

■Applications

- Toys
- Audio
- Data communication
- IR camera

■Outline Dimension



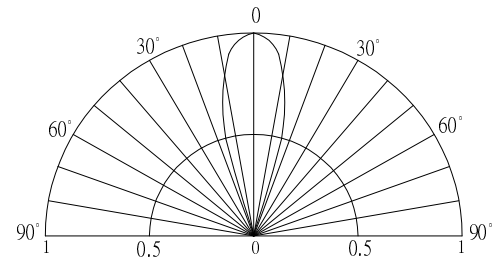
■Absolute Maximum Rating

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

Item	Symbol	Value		Unit
		Infrared	Blue	
DC Forward Current	I_F	100	50	mA
Pulse Forward Current#	I_{FP}	1000	120	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	160	170	mW
Operating Temperature	T_{opr}	$-30 \sim +85$		$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +100$		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	$260^\circ\text{C}/5\text{sec}$		-

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

■Directivity



■Electrical -Optical Characteristics

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

Item	NO.	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	Infrared	V_{F1}	$I_{F1}=100\text{mA}$	-	1.2	1.6	V
	Blue	V_{F2}	$I_{F2}=50\text{mA}$	-	2.9	3.4	V
Peak Wavelength*2	Infrared	λ_p	$I_{F1}=100\text{mA}$	-	850	-	nm
Domi. Wavelength*3	Blue	λ_D	$I_{F1}=50\text{mA}$	465	470	475	nm
Radiant Power*4	Infrared	P_o	$I_{F1}=100\text{mA}$	45	55	-	mW
Radiant Intensity*5	Infrared	I_e	$I_F=100\text{mA}$	180	220	-	mW/Sr
Luminous Intensity*6	Blue	I_v	$I_{F2}=50\text{mA}$	10000	12000	-	mcd
50% Power Angle	Infrared	$2\theta_{1/2}$	$I_{F1}=100\text{mA}$	-	30	-	deg
	Blue	$2\theta_{1/2}$	$I_{F2}=50\text{mA}$	-	30	-	deg

*1 Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$

*2 Tolerance of measurements of peak wavelength is $\pm 1\text{nm}$

*3 Tolerance of measurements of dominant wavelength is $\pm 1\text{nm}$

*4 Tolerance of measurements of Radiant Power is $\pm 15\%$

*5 Tolerance of measurements of Radiant Intensity is $\pm 15\%$

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