

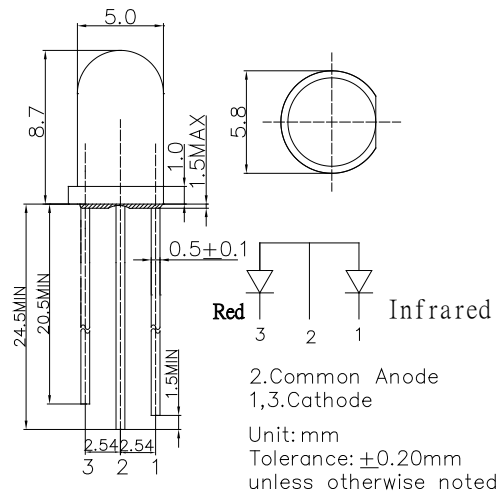
■Features

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

■Applications

- Toys
- Audio
- Data Communication
- General purposes

■Outline Dimension

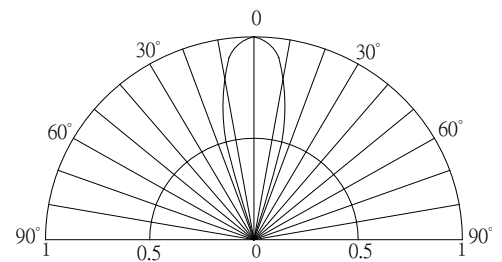


■Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value		Unit
		Infrared	Red	
DC Forward Current	I_F	70	50	mA
Pulse Forward Current#	I_{FP}	700	120	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	126	130	mW
Operating Temperature	T_{opr}	$-30 \sim +85$		°C
Storage Temperature	T_{stg}	$-40 \sim +100$		°C
Lead Soldering Temperature	T_{sol}	260°C/5sec		-

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

■Directivity



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

Item	NO.	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	Infrared	V_{F1}	$I_{F1}=50\text{mA}$	-	1.6	1.8	V
	Red	V_{F2}	$I_{F2}=50\text{mA}$	-	2.1	2.6	V
Peak Wavelength*2	Infrared	λ_p	$I_{F1}=50\text{mA}$	-	850	-	nm
	Red	λ_p	$I_{F1}=50\text{mA}$	650	660	670	nm
Radiant Power*3	Infrared	P_o	$I_{F1}=50\text{mA}$	20	30	-	mW
Radiant Intensity*4	Infrared	I_e	$I_F=50\text{mA}$	30	50	-	mW/Sr
Luminous Intensity*5	Red	I_v	$I_{F2}=50\text{mA}$	7000	8400	-	mcd
50% Power Angle	Infrared	$2\theta_{1/2}$	$I_{F1}=50\text{mA}$	-	30	-	deg
	Red	$2\theta_{1/2}$	$I_{F2}=50\text{mA}$	-	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 radiant power is $\pm 15\%$

*4 Tolerance of measurements of radiant intensity is $\pm 15\%$

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