

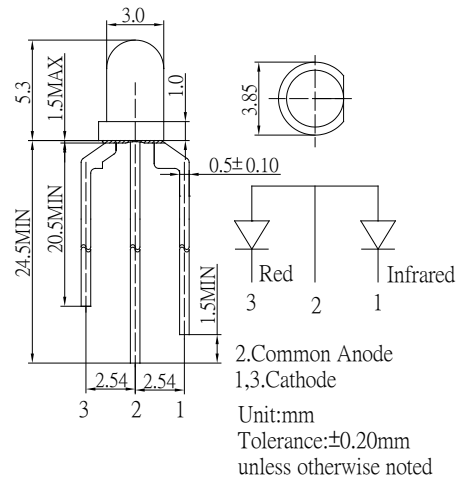
■Features

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

■Applications

- Toys
- Audio
- Data Communication
- General purposes

■Outline Dimension

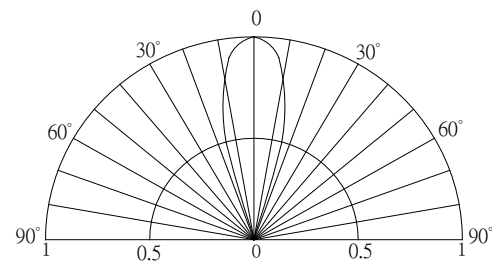


■Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value		Unit
		Infrared	Red	
DC Forward Current	I_F	100	50	mA
Pulse Forward Current#	I_{FP}	1000	120	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	160	130	mW
Operating Temperature	T_{opr}	-30 ~ +85		°C
Storage Temperature	T_{stg}	-40 ~ +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*	Infrared	V_{F1}	$I_{F1}=20mA$	-	1.2	1.6	V
	Red	V_{F2}	$I_{F2}=20mA$	1.8	2.1	2.6	V
Peak Wavelength*	Infrared	λ_p	$I_{F1}=20mA$	-	940	-	nm
Peak Wavelength*	Red	λ_p	$I_{F1}=20mA$	650	660	670	nm
Radiant Power*	Infrared	P_o	$I_{F1}=20mA$	-	10	-	mW
Radiant Intensity*	Infrared	I_e	$I_F=20mA$	-	12	-	mW/Sr
Luminous Intensity*	Red	I_v	$I_{F2}=20mA$	3000	4200	-	mcd
50% Power Angle	Infrared	$2\theta_{1/2}$	$I_{F1}=20mA$	-	30	-	deg
	Red	$2\theta_{1/2}$	$I_{F2}=20mA$	-	30	-	deg

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

*2 Tolerance of measurements of Radiant Power is $\pm 5\%$

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

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