

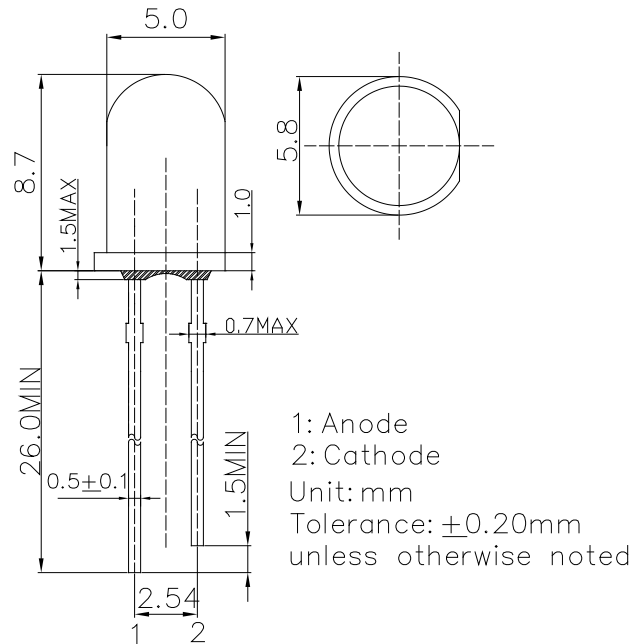
■Features

- High Radiant Power LEDs
- 5mm Standard Directivity
- UV Resistant Epoxy
- Water Clear Type

■Applications

- IrDA
- Encoder
- Data Communication
- IR Camera

■Outline Dimension

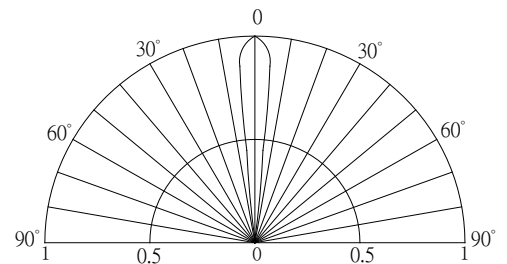


■Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current#	I_{FP}	300	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	200	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	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	$I_F=50\text{mA}$	-	1.6	2.0	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Peak Wavelength*2	λ_p	$I_F=50\text{mA}$	800	805	810	nm
Radiant Power*3	Φ_e	$I_F=50\text{mA}$	30	40	-	mW
Radiant Intensity*4	I_e	$I_F=50\text{mA}$	180	220	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	$I_F=50\text{mA}$	-	15	-	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 $\pm 15\%$