

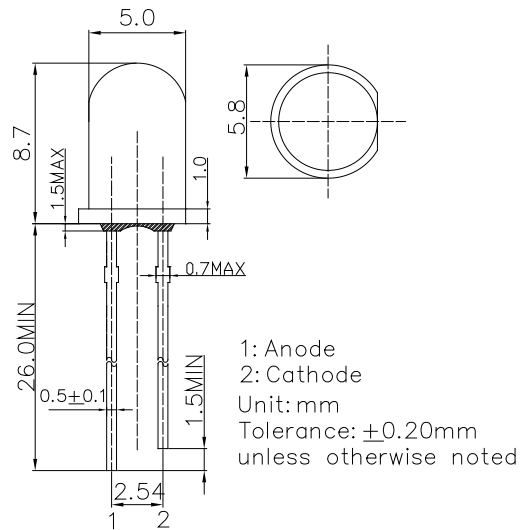
■Features

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

■Applications

- IrDA
- Encoder
- Data Communication

■Outline Dimension



■Absolute Maximum Rating

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

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	180	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

■Electrical -Optical Characteristics

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

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	$I_F=100\text{mA}$	-	1.6	1.8	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Peak Wavelength *2	λ_p	$I_F=100\text{mA}$	-	940	-	nm
Radiant Intensity *3	I_e	$I_F=50\text{mA}$	40	50	-	mW/Sr
		$I_F=100\text{mA}$	90	100	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=100\text{mA}$	-	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 Intensity is $\pm 15\%$

■Directivity

