

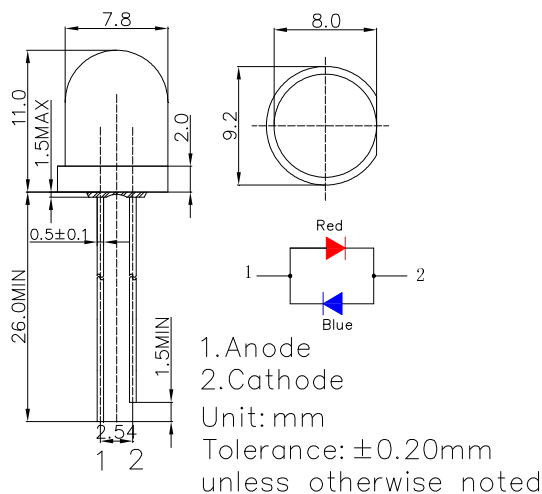
■ Features

- High Luminous LEDs
- 8mm Round Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- Water Clear Type
- Bi-polar Type

■ Applications

- Electronic Signs and Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

■ Outline Dimension



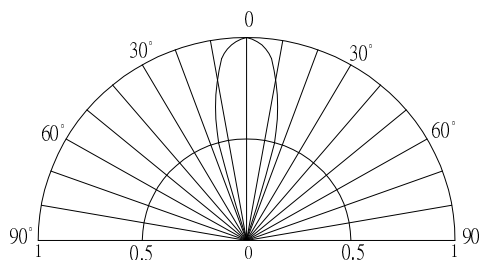
■ Absolute Maximum Rating

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

Item	Symbol	Value		Unit
		Red	Blue	
DC Forward Current	I_F	50	30	mA
Pulse Forward Current#	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	130	102	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	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F (Red)	$I_F=20\text{mA}$	-	2.1	2.6	V
	V_F (Blue)	$I_F=20\text{mA}$	-	2.9	3.4	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Domi. Wavelength*2	λ_D (Red)	$I_F=20\text{mA}$	620	625	630	nm
	λ_D (Blue)	$I_F=20\text{mA}$	465	470	475	nm
Luminous Intensity*3	I_v (Red)	$I_F=20\text{mA}$	4200	5800	-	mcd
	I_v (Blue)	$I_F=20\text{mA}$	3000	4200	-	mcd
50% Power Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	30	-	deg

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

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

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

LED & Application Technologies

