

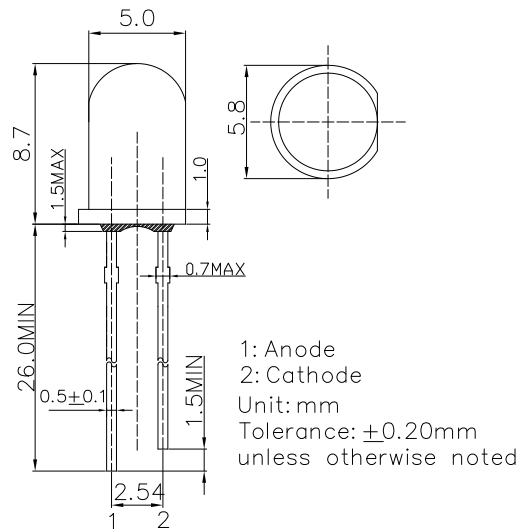
■ **Features**

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

■ **Applications**

- Backlighting (illuminated advertising etc.)
- Substitution of Micro Incandescent Lamps
- Reading Lamps / Emergency Lighting
- Marker lights (e.g. steps, exit ways, etc.)

■ **Outline Dimension**



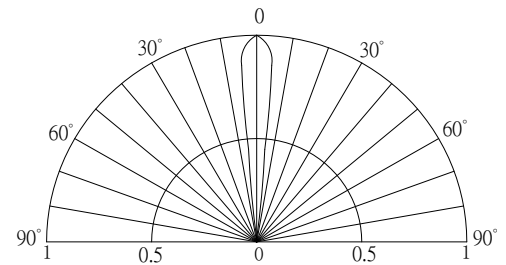
■ **Absolute Maximum Rating**

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

Item	Symbol	Value	Unit
DC Forward Current	$I_F$	30	mA
Pulse Forward Current#	$I_{FP}$	100	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	102	mW
Operating Temperature	$T_{opr}$	-30 ~ +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^\circ\text{C}$
Lead Soldering Temperature	$T_{sol}$	260 $^\circ\text{C}$ /5sec	-

#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	$V_F$	$I_F=20\text{mA}$	-	2.9	3.4	V
DC Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	10	$\mu\text{A}$
Luminous Intensity*2	$I_v$	$I_F=20\text{mA}$	40000	45000	-	mcd
Color Temperature*3	CCT	$I_F=20\text{mA}$	5500	6500	8500	K
Chromaticity Coordinates*4	x	$I_F=20\text{mA}$	-	0.31	-	
	y	$I_F=20\text{mA}$	-	0.33	-	
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 luminous intensity is  $\pm 15\%$

\*3 Tolerance of measurements of color temperature  $\pm 10\%$

\*4 Tolerance of measurements of chromaticity coordinates  $\pm 10\%$

**InGaN LED**

**TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES**

