

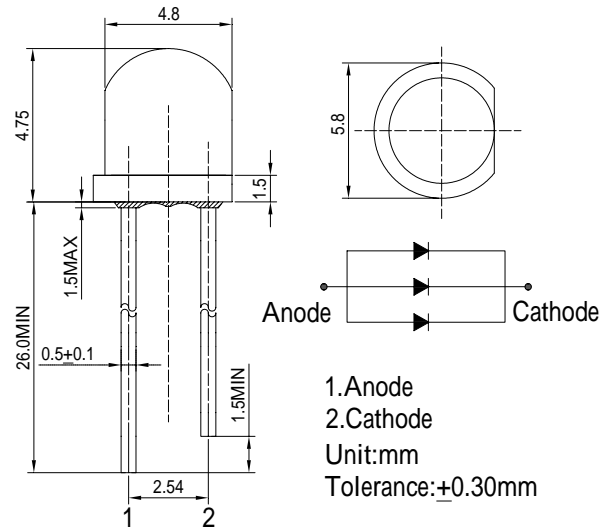
## Features

- High luminous Flux LEDs
- 4.8mm Straw Standard Directivity
- Superior Weather-resistance
- 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.)
- Other Lighting

## Outline Dimension



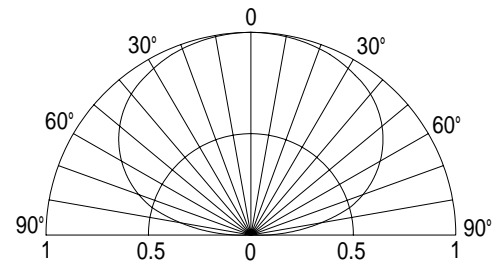
## Absolute Maximum Rating

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

Item	Symbol	Value	Unit
DC Forward Current	$I_F$	90	mA
Pulse Forward Current*	$I_{FP}$	180	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	324	mW
Operating Temperature	$T_{opr}$	-30 ~ +85	
Storage Temperature	$T_{stg}$	-40 ~ +100	
Lead Soldering Temperature	$T_{sol}$	260 /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	$V_F$	$I_F=90\text{mA}$	2.9	3.1	3.6	V
DC Reverse Current	$I_R$	$V_R=5\text{V}$	-	-	30	$\mu\text{A}$
Luminous Flux*	$\nu$	$I_F=90\text{mA}$	35	40	-	lm
		$I_F=60\text{mA}$	24	27	-	
Color Temperature	CCT	$I_F=90\text{mA}$	-	8000	-	K
Chromaticity Coordinates*	x	$I_F=90\text{mA}$	-	0.29	-	
	y	$I_F=90\text{mA}$	-	0.32	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=90\text{mA}$	-	150	-	deg

\*1 Tolerance of chromaticity coordinates is  $\pm 10\%$

\*2 Tolerance of luminous Flux is  $\pm 15\%$