

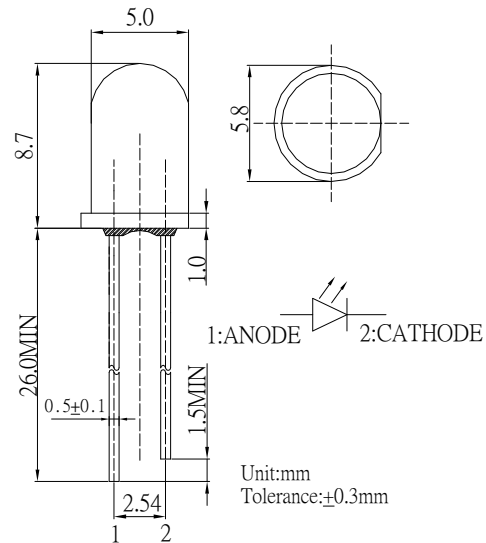
### ■ Features

- High luminous Flux LEDs
- 5mm Round 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

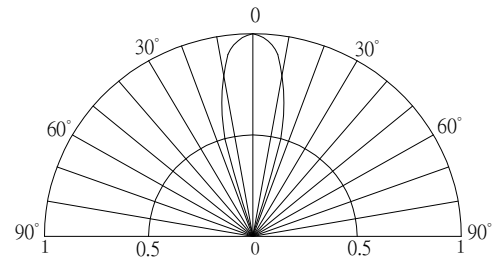


### ■ Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	$I_F$	60	mA
Pulse Forward Current*	$I_{FP}$	120	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	216	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	$V_F$	$I_F=50mA$	2.9	3.1	3.6	V
DC Reverse Current	$I_R$	$V_R=5V$	-	-	10	$\mu A$
Luminous Flux	$\Phi_v$	$I_F=50mA$	19	21	-	lm
Luminous Intensity*	$I_v$	$I_F=50mA$	30000	40000	-	mcd
Color Temperature	CCT	$I_F=50mA$	-	6500	-	K
Chromaticity Coordinates*	x	$I_F=50mA$	-	0.31	-	
	y	$I_F=50mA$	-	0.33	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=50mA$	-	30	-	deg

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

\*2 Tolerance of measurements of luminous intensity is  $\pm 15\%$

\*3 Tolerance of measurements of forward voltage is  $\pm 0.1V$