

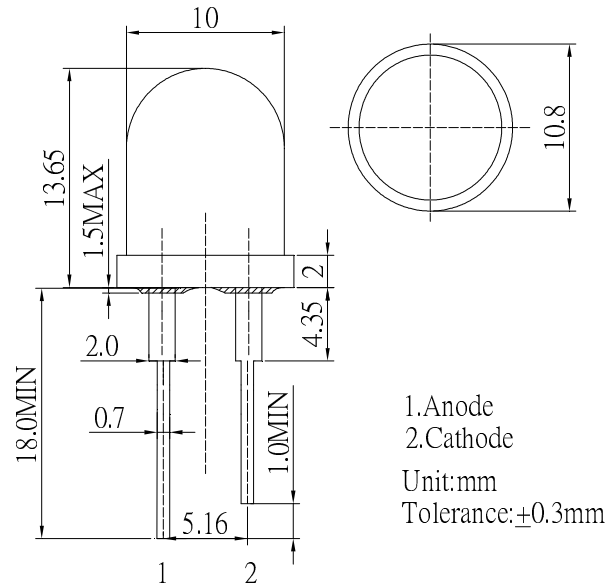
■Features

- High Luminous LEDs
- 10mm Round Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

■Applications

- Backlighting (Illuminated advertising, general lighting, etc)
- Portable (flashlight, bicycle)
- Interior and exterior automotive lighting
- Other Lighting

■Outline Dimension



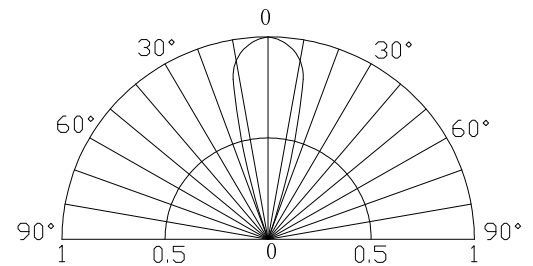
■Absolute Maximum Rating

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

Item	Symbol	Value	Unit
DC Forward Current	I_F	90	mA
Pulse Forward Current*	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	324	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 $^\circ\text{C}/5\text{sec}$	-

*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	V_F	$I_F=60\text{mA}$	2.8	3.2	3.6	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Luminous Flux*	Φ_v	$I_F=90\text{mA}$	25	29	-	lm
		$I_F=60\text{mA}$	16	19	-	
Color Temperature	CCT	$I_F=60\text{mA}$	-	3000	-	K
Chromaticity Coordinates*	x	$I_F=60\text{mA}$	-	0.45	-	
	y	$I_F=60\text{mA}$	-	0.41	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=60\text{mA}$	-	30	-	deg

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

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

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