

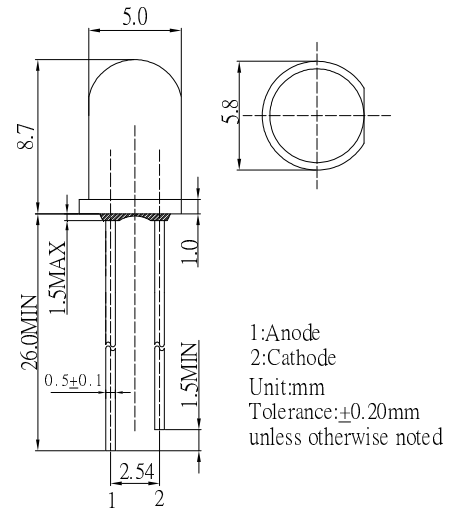
■ **Features**

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

■ **Applications**

- Advertising Board
- Horticulture Application
- Traffic Light / Signal Light
- Beauty Product
- Other Lighting

■ **Outline Dimension**

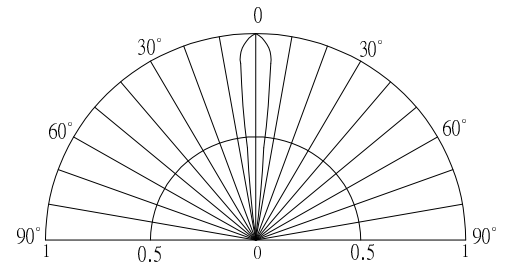


■ **Absolute Maximum Rating**

(Ta=25°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	78	mW
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40~ +100	°C
Lead Soldering Temperature	T _{sol}	260°C/5sec	-

■ **Directivity**



#Pulse width Max.10ms Duty ratio max 1/10

■ **Electrical -Optical Characteristics**

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V _F	I _F =30mA	1.8	2.1	2.6	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	3.5	4.5	-	lm
Luminous Intensity*	I _v	I _F =30mA	22	25	-	cd
Domi. Wavelength*	λ _D	I _F =30mA	600	605	610	nm
50% Power Angle	2θ _{1/2}	I _F =30mA	-	15	-	deg

*1 Tolerance of measurements of dominant wavelength is ±1nm

*2 Tolerance of measurements of luminous intensity is ±15%

*3 Tolerance of measurements of forward voltage is ±0.1V

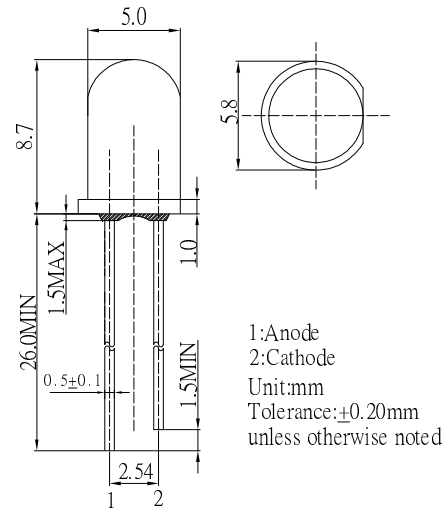
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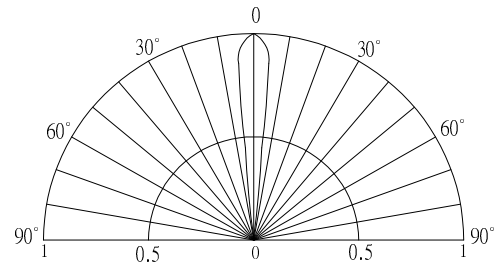


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DC Forward Current	I _F	30	mA
Pulse Forward Current#	I _{FP}	100	mA
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Power Dissipation	P _D	78	mW
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40~ +100	°C
Lead Soldering Temperature	T _{sol}	260°C/5sec	-

■ **Directivity**



#Pulse width Max.10ms Duty ratio max 1/10

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(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V _F	I _F =30mA	1.8	2.1	2.6	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	3.5	4.5	-	lm
Luminous Intensity*	I _v	I _F =30mA	22	25	-	cd
Domi. Wavelength*	λ _D	I _F =30mA	620	625	630	nm
50% Power Angle	2θ _{1/2}	I _F =30mA	-	15	-	deg

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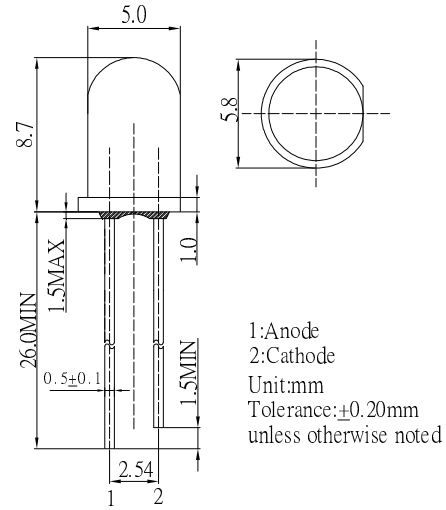
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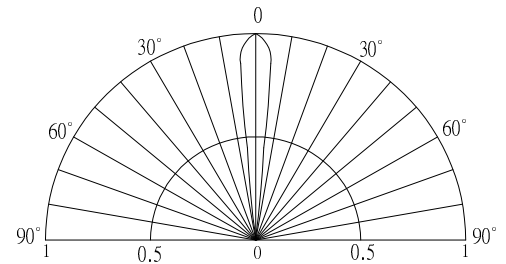


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(Ta=25°C)

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	78	mW
Operating Temperature	T _{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40~ +100	°C
Lead Soldering Temperature	T _{sol}	260°C/5sec	-

■ Directivity



#Pulse width Max.10ms Duty ratio max 1/10

■ Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V _F	I _F =30mA	1.8	2.1	2.6	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	3.5	4.5	-	lm
Luminous Intensity*	I _v	I _F =30mA	22	25	-	cd
Domi. Wavelength*	λ _D	I _F =30mA	585	590	595	nm
50% Power Angle	2θ _{1/2}	I _F =30mA	-	15	-	deg

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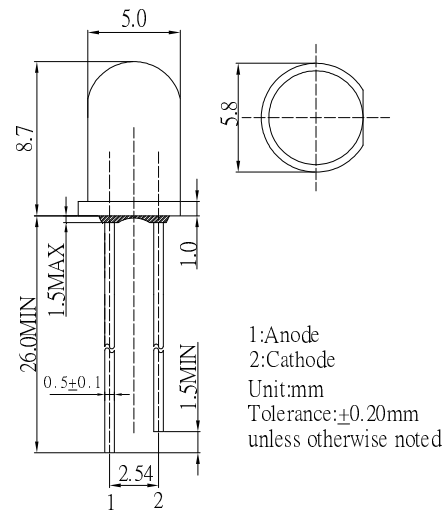
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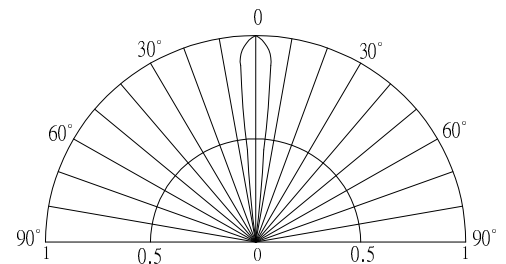


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(Ta=25°C)

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	°C
Storage Temperature	T _{stg}	-40~ +100	°C
Lead Soldering Temperature	T _{sol}	260°C/5sec	-

■ Directivity



#Pulse width Max.10ms Duty ratio max 1/10

■ Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V _F	I _F =30mA	2.7	3.0	3.4	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	2.5	3.0	-	lm
Luminous Intensity*	I _v	I _F =30mA	14.4	18	-	cd
Domi. Wavelength*	λ _D	I _F =30mA	465	470	475	nm
50% Power Angle	2θ _{1/2}	I _F =30mA	-	15	-	deg

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*3 Tolerance of measurements of forward voltage is ±0.1V

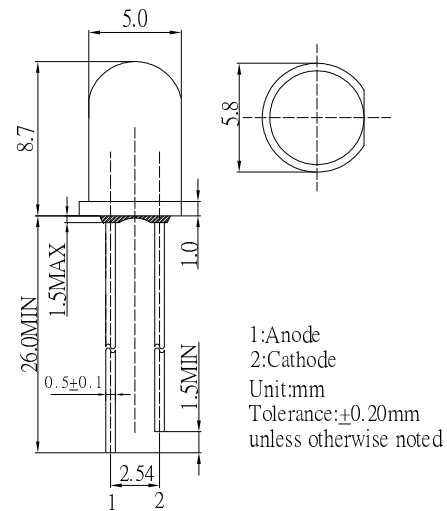
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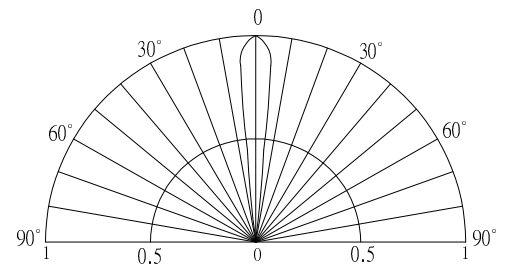


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($T_a=25^\circ\text{C}$)

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	-

■ Directivity



#Pulse width Max.10ms Duty ratio max 1/10

■ Electrical -Optical Characteristics

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

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V_F	$I_F=30\text{mA}$	2.7	2.9	3.4	V
DC Reverse Current	I_R	$V_R=5\text{V}$	-	-	10	μA
Luminous Flux	Φ_v	$I_F=30\text{mA}$	9	10	-	lm
Luminous Intensity*	I_v	$I_F=30\text{mA}$	85	100	-	cd
Domi. Wavelength*	λ_D	$I_F=30\text{mA}$	520	525	530	nm
50% Power Angle	$2\theta_{1/2}$	$I_F=30\text{mA}$	-	15	-	deg

*1 Tolerance of measurements of dominant wavelength is ± 1 nm

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

*3 Tolerance of measurements of forward voltage is ± 0.1 V

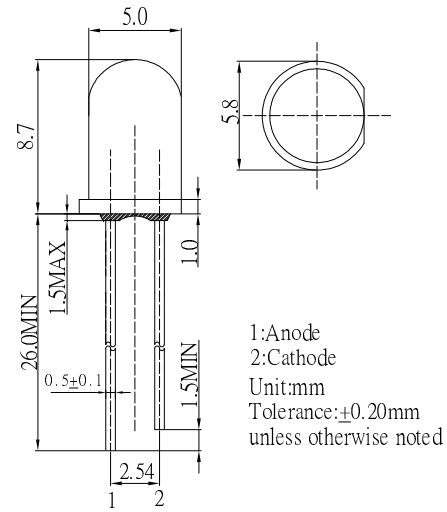
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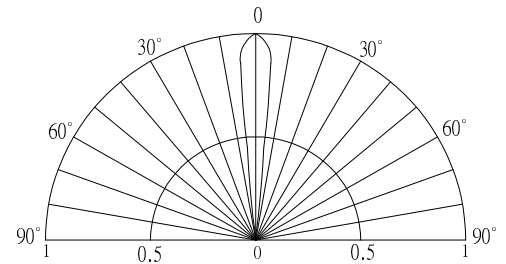


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Lead Soldering Temperature	Tsol	260°C/5sec	-

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■ **Electrical -Optical Characteristics**

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*	V _F	I _F =30mA	2.7	2.9	3.4	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	8.5	10	-	lm
Luminous Intensity*	I _v	I _F =30mA	43	60	-	cd
Color Temperature	CCT	I _F =30mA	-	3000	-	K
Chromaticity Coordinates*	x	I _F =30mA	-	0.44	-	
	y	I _F =30mA	-	0.41	-	
50% Power Angle	2θ _{1/2}	I _F =30mA	-	15	-	deg

*1 Tolerance of measurements of chromaticity coordinates is ±10%

*2 Tolerance of measurements of luminous intensity is ±15%

*3 Tolerance of measurements of forward voltage is ±0.1V

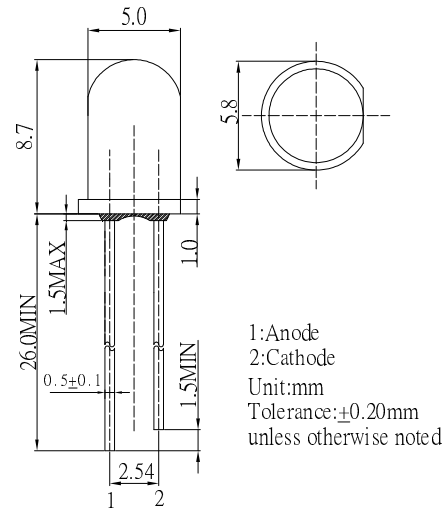
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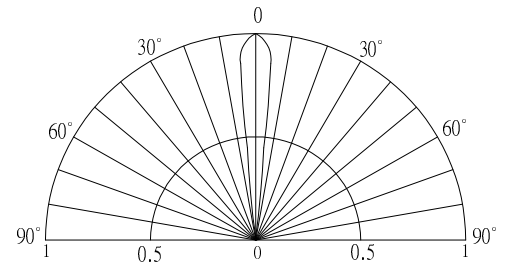


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DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux	Φ _v	I _F =30mA	8.5	10	-	lm
Luminous Intensity*	I _v	I _F =30mA	43	60	-	cd
Color Temperature	CCT	I _F =30mA	-	6500	-	K
Chromaticity Coordinates*	x	I _F =30mA	-	0.31	-	
	y	I _F =30mA	-	0.33	-	
50% Power Angle	2θ _{1/2}	I _F =20mA	-	15	-	deg

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