

Item no.: 3275238 – Cold white
3275239 – Warm white

Data Sheet

5 mm Round Ultra Bright LED

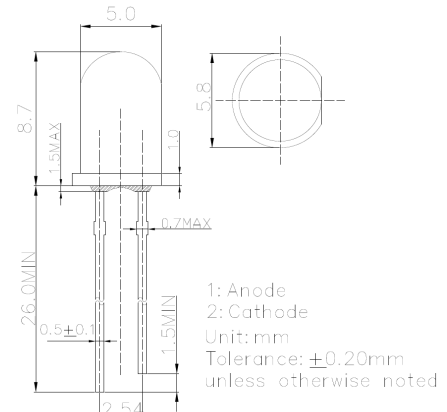
Features

- Ultra Bright LED
- 5 mm Round Standard Directivity
- Long Lifetime Operation
- 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

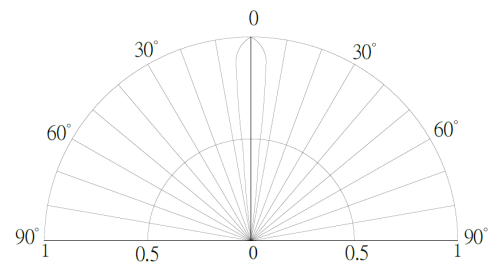


Absolute Maximum Rating (Ta=25 °C)

Item	Symbol	Value	Unit
DC Forward Current	I_F	50	mA
Pulse Forward Current#	I_{FP}	120	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	150	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260 °C / 5 sec	-

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

Directivity



Electrical-Optical Characteristics (Ta=25 °C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage*1	V_F	$I_F=20\text{ mA}$	-	2.7	3.0	V
Pulse Forward Current#	I_R	$V_R=5\text{ V}$	-	-	10	μA
Luminous Flux*2	Φ_v	$I_F=20\text{ mA}$	9	11	-	lm
Luminous Intensity*3	I_v	$I_F=20\text{ mA}$	60000	70000	-	mcd
Color Temperature*4	CCT	$I_F=20\text{ mA}$	2700	3000	3300	K
Chromaticity Coordinates*5	x	$I_F=20\text{ mA}$	-	0.44	-	
	y	$I_F=20\text{ mA}$	-	0.41	-	
50% Power Angle	$2\theta_{1/2}$	$I_F=20\text{ mA}$	-	15	-	deg

*1 Tolerance of measurements of forward voltage is $\pm 0.1\text{ V}$

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

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

*4 Tolerance of measurements of color temperature is $\pm 10\%$

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