



# LED SPECIFICATION

Part No.: 05W580EWC



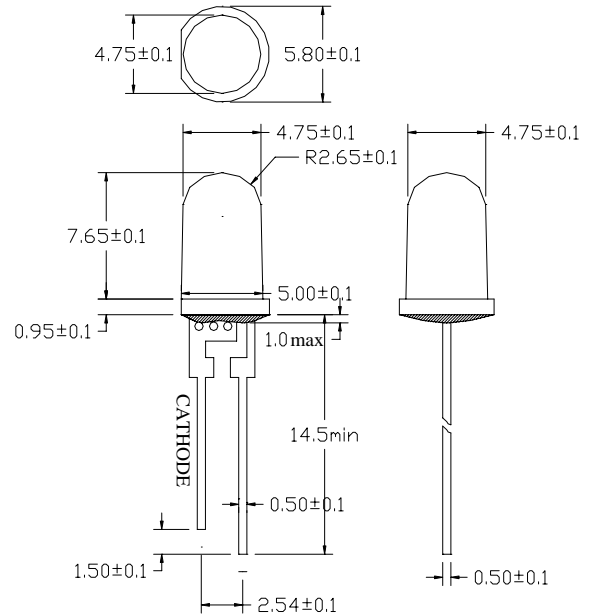
**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

## Features:

- Single color
- High bright output
- Medium power consumption
- High reliability and long life

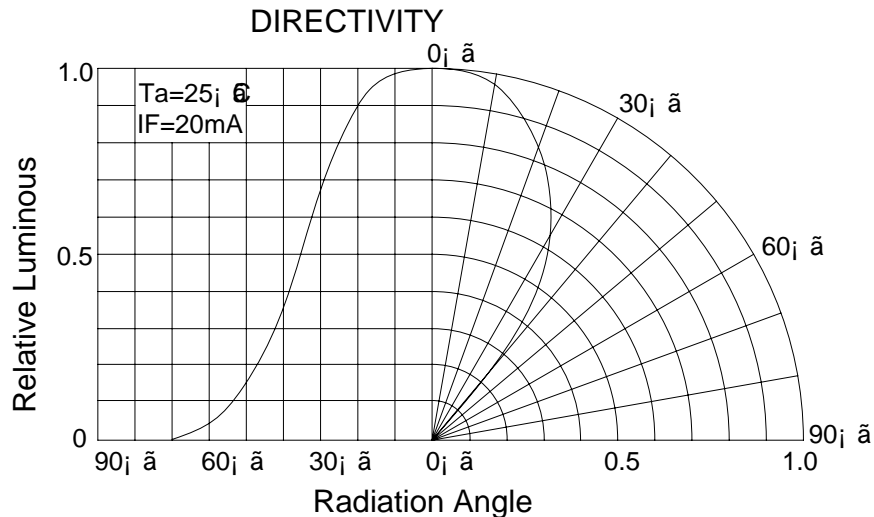
## Descriptions:

- Dice material: GaInN
- Emitting Color: Super Bright White
- Device Outline:  $\phi$  5mm Round Type
- Lens Type: Water Clear



## NOTE:

- All dimensions are millimetre
- Tolerance is  $\pm 0.25 \text{ mm}$  unless otherwise noted





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## Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 30 μA	5	--	V
Forward Current	I <sub>F</sub>	----	----	100	mA
Power Dissipation	P <sub>d</sub>	----	----	4.8	W
Pulse Current	I <sub>peak</sub>	Duty=0.1mS, 1kHz	----	200	mA
Operating Temperature	T <sub>opr</sub>	----	-20	+85	°C
Storage Temperature	T <sub>str</sub>	----	-25	+100	°C

## Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 100mA		V10~V12	V	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V	----	----	30 μA	
Luminous Flux	Φ <sub>v</sub>	I <sub>F</sub> = 100mA		N,AE,AF	lm	
Viewing Angle	2θ 1/2	I <sub>F</sub> = 100mA	70		90 Deg.	
Color Temperature	CCT	I <sub>F</sub> = 100mA	W3~W8			



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## COLOR TEMPERATURE BIN

Bin Code	C Temp (K)	Bin Code	C Temp (K)
W0	<3000	W6	6000~7000
W1	3000~3500	W7	7000~8000
W2	3500~4000	W8	8000~10000
W3	4000~4500	W9	10000~15000
W4	4500~5000	W10	15000~20000
W5	5000~6000	W00	>20000

## FLUX BIN

Bin Code	Lumens	Bin Code	Lumens
A	<0.46	M	6.0~7.8
B	0.46~0.60	N	7.8~10.0
C	0.60~0.77	AE	10~13
D	0.77~1.0	AF	13~17
E	1.0~1.3	AG	17~22
F	1.3~1.7	AH	22~28
G	1.7~2.2	AJ	28~36
H	2.2~2.8	AK	36~47
J	2.8~3.6	AL	47~60
K	3.6~4.7	AM	60~78
L	4.7~6.0	AN	78~100

## FORWARD VOLTAGE (VF) BIN

Bin Code	VF (V)	Bin Code	VF (V)
V1	1.6-1.8	V9	3.2-3.4
V2	1.8-2.0	V10	3.4-3.6
V3	2.0-2.2	V11	3.6-3.8
V4	2.2-2.4	V12	3.8-4.0
V5	2.4-2.6	V13	4.0-4.2
V6	2.6-2.8	V14	4.2-4.4
V7	2.8-3.0	V15	4.4-4.6
V8	3.0-3.2	V16	4.6-4.8



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