



Snowdragon Industrial Co.,Ltd

DATA SHEET

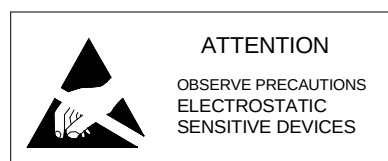
MODEL No : **SDL500WCD-0-CM-C**
ENG. No: **09042114**

Description:

- 5mm Round
- Lens Color: Water clear
- Emitting Color: White
- No Stopper
- Viewing Angle :15°

DiceMaterial: InGaN

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		



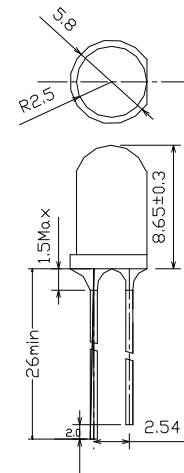
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Applications:

Dimension Drawing

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	25	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	100	mW
Operation Temperature	T_{opr}	-20 ~ +75	°C
Storage Temperature	T_{stg}	-30 ~ +80	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	



Notes:

- 1.All dimensions are in mm, Tolerance is ± 0.25 mm unless others noted
- 2.An epoxy meniscus may extend about 1.5mm
- 3.Burr around bottom of epoxy may be 0.5mm max.

*pulse width ≤ 0.1 msec duty $\leq 1/10$

Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20$ mA	2.8	3.3	4.0	V
Reverse Current	I_R	$V_R = 5$ V	---	---	10	μ A
Wave length	CCT	$I_F = 20$ mA	---	7800	---	k
Luminous Intensity	I_V	$I_F = 20$ mA	---	13500	---	mcd
50% Power Angle	2 θ_{H-H}	$I_F = 20$ mA	---	15	---	deg
	2 θ_{V-V}	$I_F = 20$ mA	---	---	---	deg

Rank	Luminous Intensity(mcd)	Rank	Luminous Intensity(mcd)	Rank	Luminous Intensity(mcd)
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Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by Snowdragon.
- 2) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 3) Tolerance of measurement of dominant wavelength is ± 1 nm.
- 4) Tolerance of measurement of V_f is ± 0.05 V.
- 5) Packaging methods are available for selection, please refer to PACKAGING STANDARD.
- 6) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

Typical Optical-Electronic Characteristic Curves

