



Snowdragon Industrial Co.,Ltd

DATA SHEET

MODEL No : **SDL518BCP-0-HD-C**

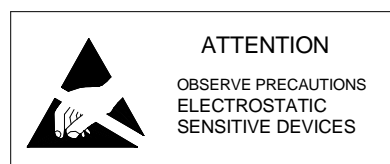
ENG. No:

Description:

- 5mm Helmet
- Lens Color: Water Clear
- Emitting Color: Blue
- No Stoppe
- Viewing Angle :75°

Dice Material: InGaN

PREPARED BY	CHECKED BY	APPROVED BY
CUSTOMER APPROVED SIGNATURES		



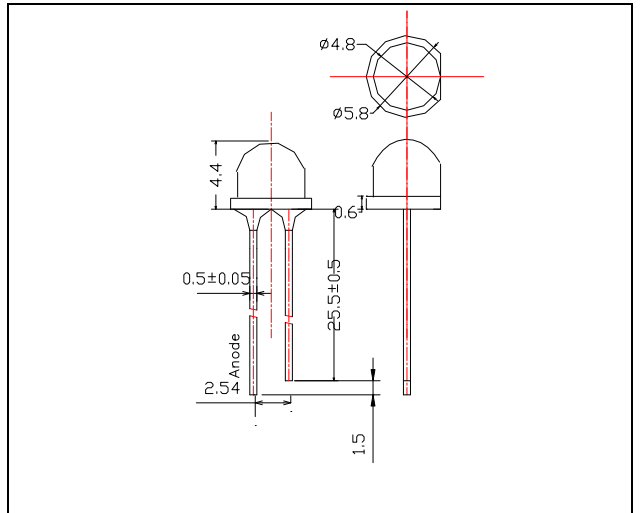
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Applications:

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	3.2	3.6	V
Reverse Current	I_R	$V_R = 5$ V	---	---	10	μ A
Wavelength	λ_D	$I_F = 20$ mA	---	470	---	nm
Luminous Intensity	I_V	$I_F = 20$ mA	---	400	---	mcd
50% Power Angle	$2\theta_{\frac{1}{2}H-H}$	$I_F = 20$ mA	---	75	---	deg
	$2\theta_{\frac{1}{2}V-V}$	$I_F = 20$ mA	---	---	---	deg

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 Vf 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.

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Typical Optical-Electronic Characteristic Curves

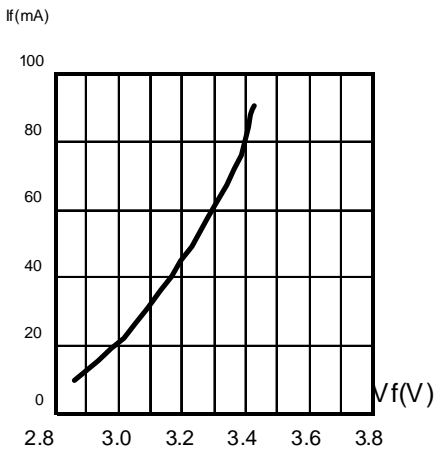


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

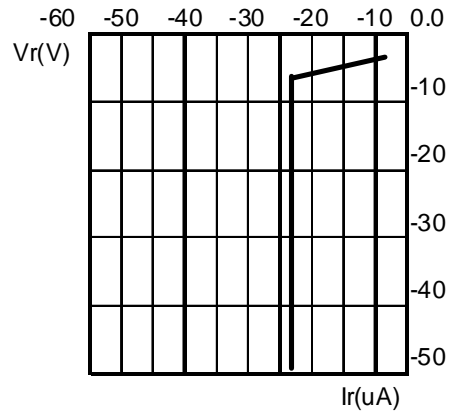


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

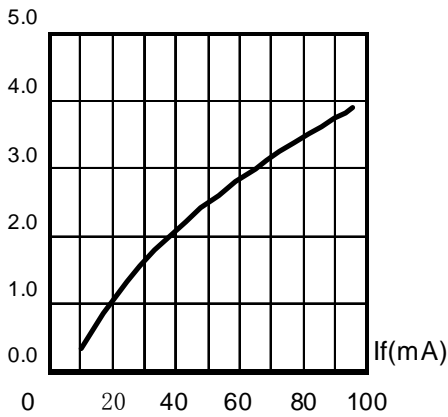


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.

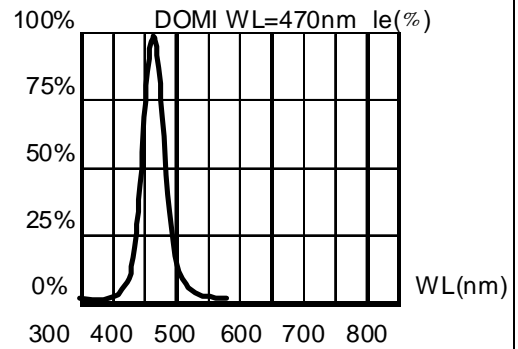
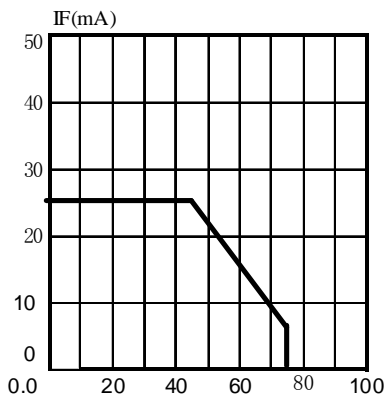


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.



CURRENT VS AMBIENT TEMPERATURE (Tjmax=105)

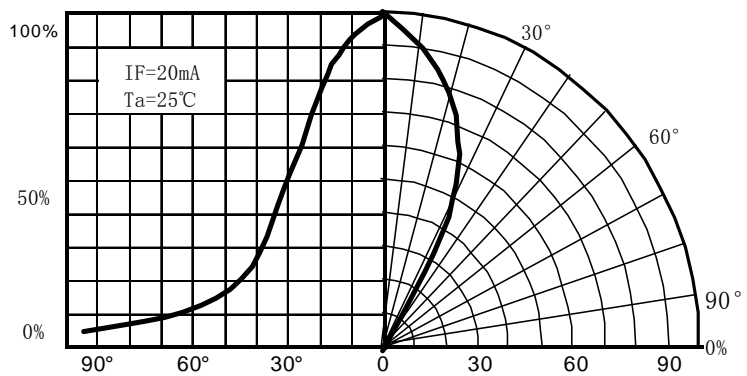


Fig.6 FAR FIELD PATTERN