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## Snowdragon Industrial Co.,Ltd

### DATA SHEET

MODEL No : **SD546RTR-0-CM-P**

ENG. No:

Description:

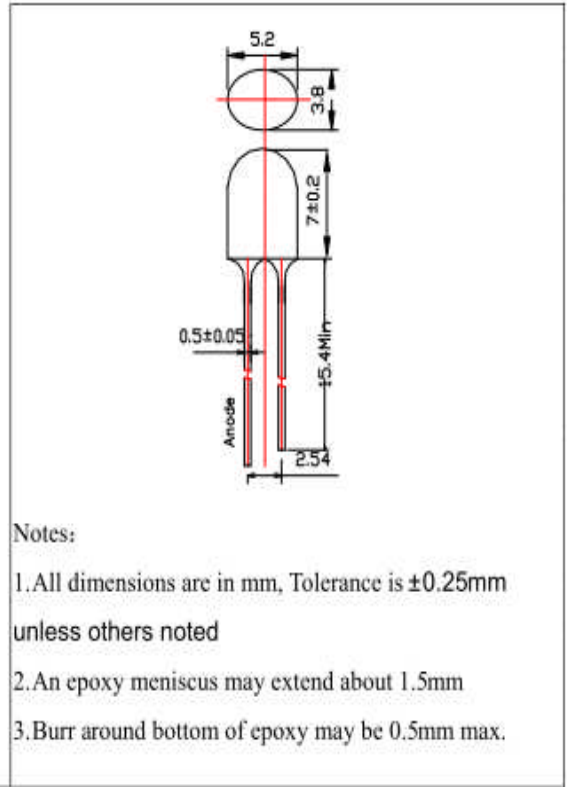
- 5mm Oval
  - Diffused red clear
  - **No stopper**
  - Viewing angle: 85-90°
- Chip**      AlGaInP

PREPARED BY	CHECKED BY	APPROVED BY
<b>CUSTOMER APPROVED SIGNATURES</b>		



Modle No: .	SD546RTR-0-CM-P

**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	$P_D$	65	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)	

\*pulse width  $\leq 0.1\text{msec}$  duty  $\leq 1/10$

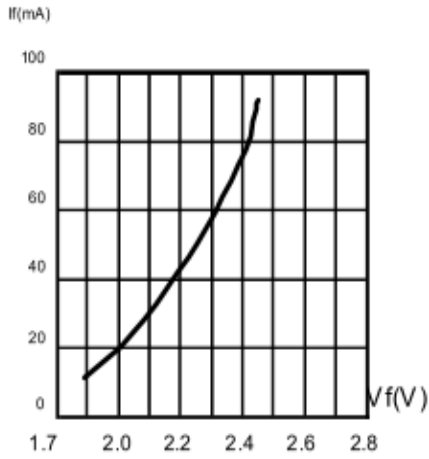
**Typical Electrical & Optical Characteristics ( Ta = 25°C)**

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	1.7	2.2	2.6	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	---	---	10	$\mu\text{A}$
Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	---	625	---	nm
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	---	600	---	mcd
50% Power Angle	$2\theta_{\frac{1}{2}\text{H-H}}$	$I_F = 20\text{mA}$	---	85	---	deg
	$2\theta_{\frac{1}{2}\text{V-V}}$	$I_F = 20\text{mA}$	---	35	---	deg

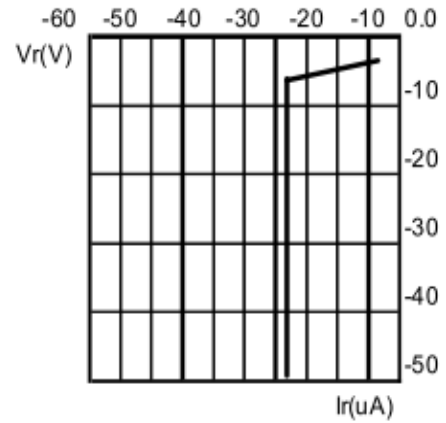
Rank	Luminous Intensity(mcd)	Rank	Luminous Intensity(mcd)	Rank	Luminous Intensity(mcd)
/	/	/	/	/	/

Model No:	SD546RTR-0-CM-P

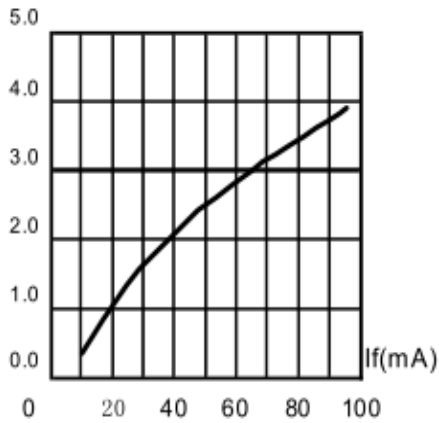
Typical Optical-Electronic Characteristic Curves



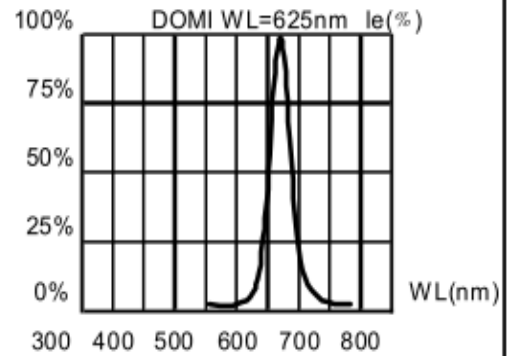
**Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.**



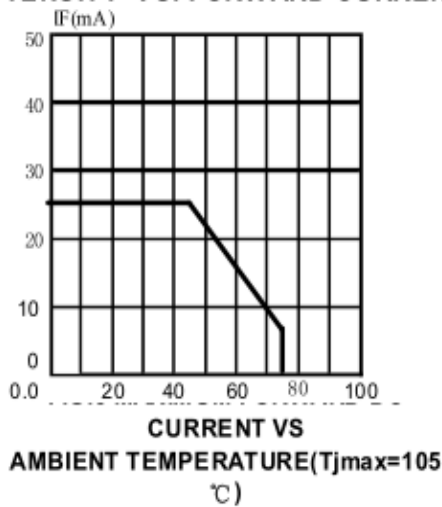
**Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.**



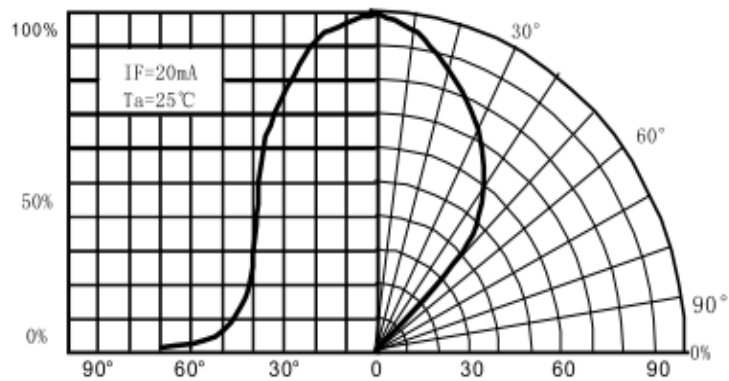
**Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT.**



**Fig.4 RELATIVE LUMINOUS INTENSITY**



**CURRENT VS AMBIENT TEMPERATURE (Tjmax=105 °C)**



**Fig.6 FAR FIELD PATTERN**