

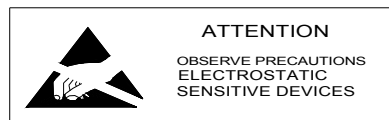
MODEL No : NO566PHR4-80Q-01  
ENG. No:

Description:

- 5mm Oval lamp
- Lens Color: Colored Diffused
- Emitting Color: Red
- Viewing Angle :80°
- NO Stopper

Dice Material: AlGaInP

PREPARED BY	CHECKED BY	APPROVED BY	CUSTOMER APPROVED SIGNATURES



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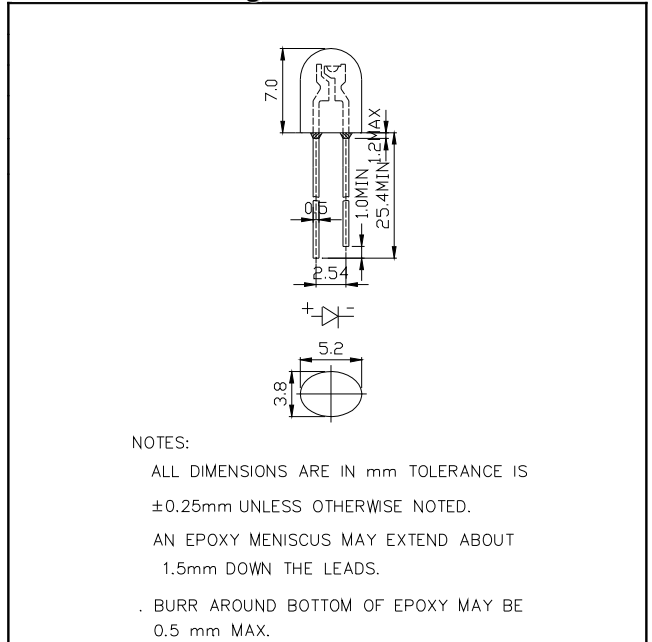
**Applications:**

**Absolute Maximum Ratings at Ta = 25°C**

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	$I_F$	50	mA
Peak Forward Current*	$I_{FP}$	200	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	130	mW
Operation Temperature	$T_{opr}$	-40 ~ +95	°C
Storage Temperature	$T_{stg}$	-40 ~ +100	°C
Lead Soldering Temperature	$T_{sol}$	Max.260°C for 5 sec Max. (3mm from the base of the epoxy bulb)	

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

**Dimension Drawing**

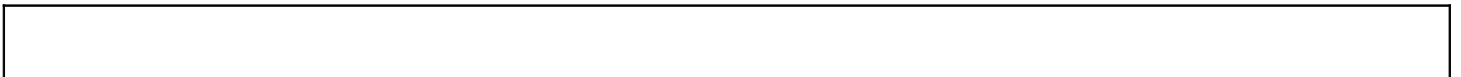


**Typical Electrical & Optical Characteristics ( Ta = 25°C)**

Items	Symbol	Condition	Min.	Typ.	Max.	Unit	Imp
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	---	2.1	2.6	V	
Reverse Current	$I_R$	$V_R = 5\text{V}$	---	---	10	$\mu\text{A}$	
Dominant Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	---	624	---	nm	
Luminous Intensity	$I_v$	$I_F = 20\text{mA}$	---	600	---	mcd	
50% Power Angle	$2\theta_{\frac{1}{2}H-H}$	$I_F = 20\text{mA}$	---	80	---	deg	
	$2\theta_{\frac{1}{2}V-V}$	$I_F = 20\text{mA}$	---	40	---	deg	

**Important Notes:**

- 1) All ranks will be included per delivery, rank ratio will be determined by NEON.
- 2) Tolerance of measurement of luminous intensity is  $\pm 15\%$ .
- 3) Tolerance of measurement of dominant wavelength is  $\pm 1\text{nm}$ .
- 4) Tolerance of measurement of Vf is  $\pm 0.05\text{ V}$ .
- 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

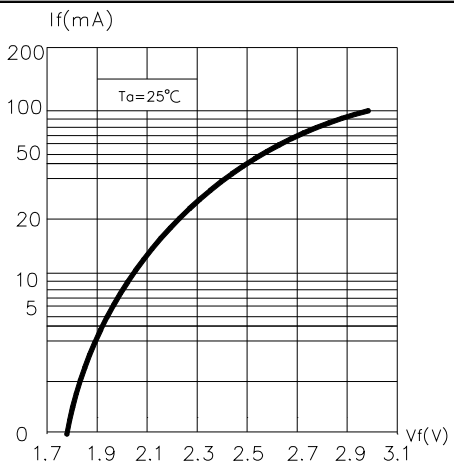


Fig.1 Forward Current vs. Forward Voltage

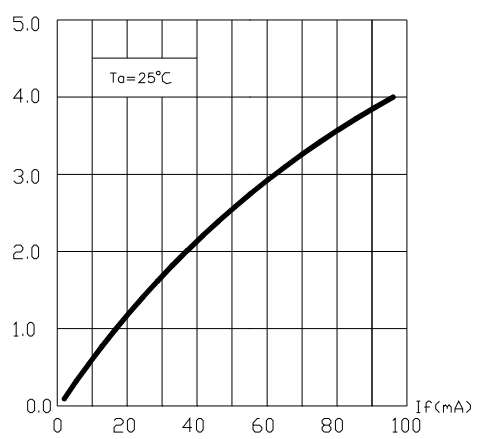


Fig.2 Relative Luminous Intensity vs. Forward Current

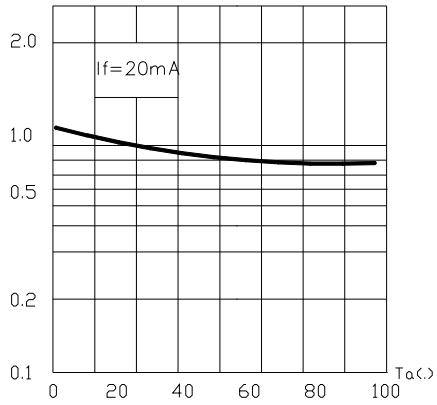


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

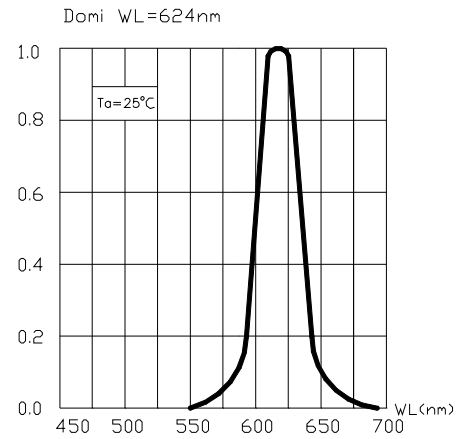


Fig.4 Relative Luminous Flux vs. Wavelength

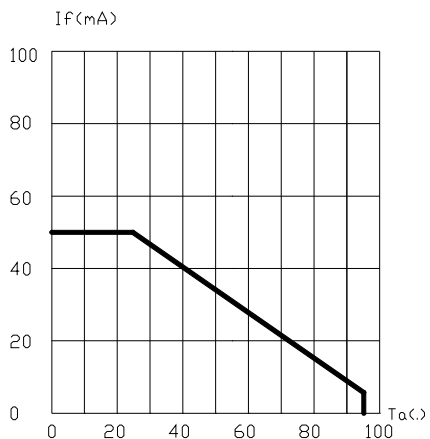


Fig.5 Maximum Forward Current vs. Ambient Temperature

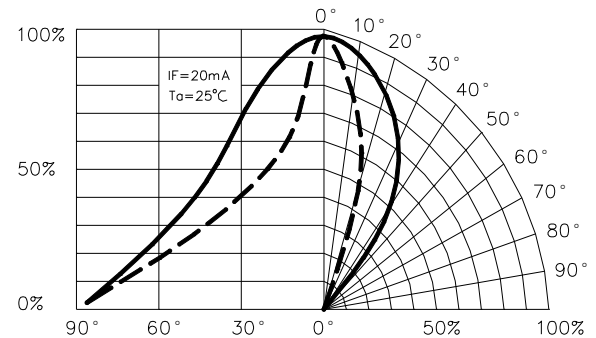



Fig.6 Relative Luminous Intensity vs. Radiation Angle

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Items	Signatures	Date	
Prepared by			
Checked by			
Approved by			