

Harvatek 3.0mm Round LED LAMP with Holder

HV-31260/260/SYG

Official Product	HV-31260/260/SYG	Customer Part No.		Data Sheet No.
	*********	******		CDAE-020-019
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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified RoHS Compliant



Orderable Information

HV - 31260 / 260 / SYG



Series Name	Color Code	Remark
HV:	31260: Array 1 Lamp	
HARVATEK	260:	
	3.0mm Round LED LAMP.	
	SYG:	
	AlGalnP 571nm Green Chip.	

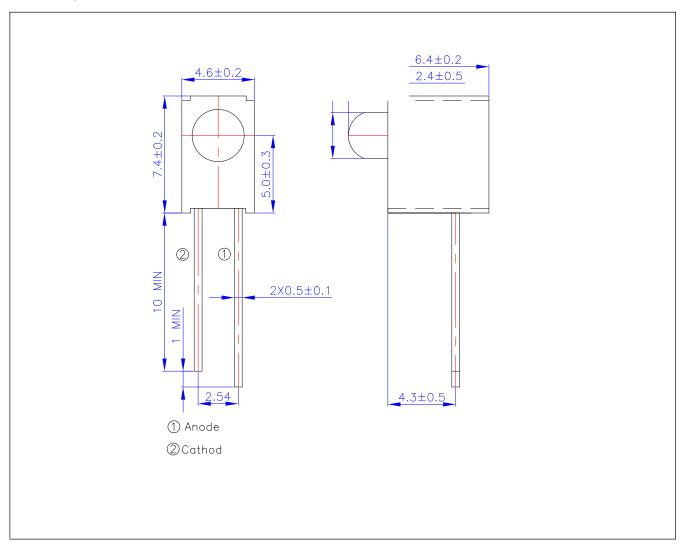
Features:

- Stable Color
- Popular 3.0mm through hole package.
- Green Diffused lens

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Package Dimensions:



Notes:

- 1.All dimensions are millimeters.
- 2. Tolerance is +/-0.25mm unless otherwise noted.
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Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Rating	Unit
Forward Current	${ m I_F}$	30	mA
Operating Temperature	Topr	-40to+85	$^{\circ}$
Storage Temperature	Tstg	-40to+100	$^{\circ}$
Soldering Temperature*1	Tsol	260±5	$^{\circ}$
Power Dissipation	P_{d}	75	mW
Reverse Voltage	V_R	5	V
Peak Forward Current*2	$ m I_{FP}$	0.1	A

^{*1:}Soldering time \leq 5 seconds. *2:Pulse Width \leq 100 μ s and Duty \leq 1%

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Electrical and Optical Characteristic

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V_{F}	I _F =20 mA	/	2.0	2.5	V
Reverse Current	I_R	V _R = 5 V	/	/	10	μА
Luminous Intensity	I_{V}	I _F =20 mA	20	50	/	mcd
Viewing Angle	20½	I _F =20 mA	/	60	/	deg
Dominant Wavelength	$\lambda_{ m d}$	I _F =20 mA	566	571	/	nm
Peak Wavelength	λρ	I _F =20 mA	569	574	/	nm
Spectrum Radiation Bandwidth	Δλ	I _F =20 mA	/	25	/	nm

Notes: θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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Specifications for Bin Grading:

lv (mcd)				
Grade	Min.	Min.		
M	20	32		
N	25	50		
Р	40	80		
Q	63	125		
R	100	200		
S	160	320		

λd (nm)				
Grade	Min.	Max.		
5	566	569		
3	568	571		
7	570	573		
8	572	575		
9	574	577		

Notes:

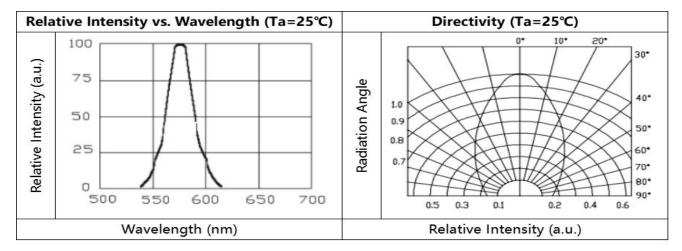
1.Luminous intensity:+/-15%.

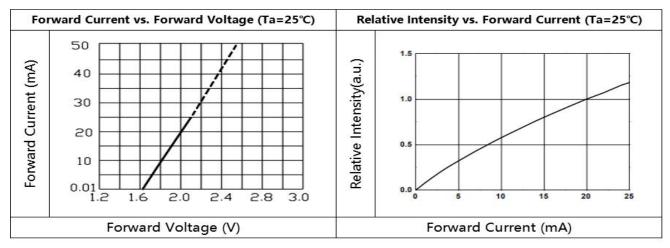
2.Wavelength: +/-1nm.

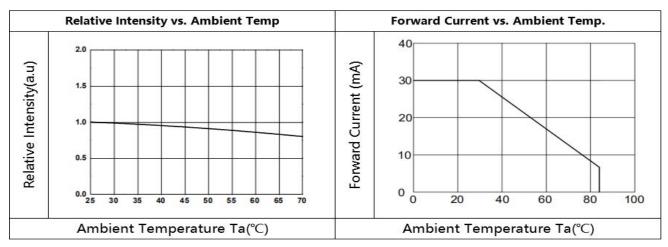
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Typical Electro-Optical Characteristics Curves







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Reliability test items and conditions:

The reliability of products shall be satisfied with items listed below.

Confidence level: 97%

LTPD:3%

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	Failure Judgment Criteria	Ac/Er
1	Solder Heat	TEMP:260°C±5°C	10 SEC	76 PCS		0/1
2	Temperature Cycle	H:+100°C 15min ∫ 5min L:-40°C 15min	300 CYCLES	76 PCS		0/1
3	Thermal Shock	H:+100°C 5min ∫ 10sec L:-10°C 5min	300 CYCLES	76 PCS	$Iv \le Ivt*0.5$ or	0/1
4	High Temperature Storage	TEMP:100℃	1000 HRS	76 PCS	Vf≧U or	0/1
5	Low Temperature Storage	TEMP:-40℃	1000 HRS	76 PCS	Vf≦L	0/1
6	DC Operating Life	TEMP:25℃ IF=20mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85℃/85%RH	1000 HRS	76 PCS		0/1

Note: Ivt: To test Iv value of the chip before the reliability test.

Iv: The test value of the chip that has completed the reliability test

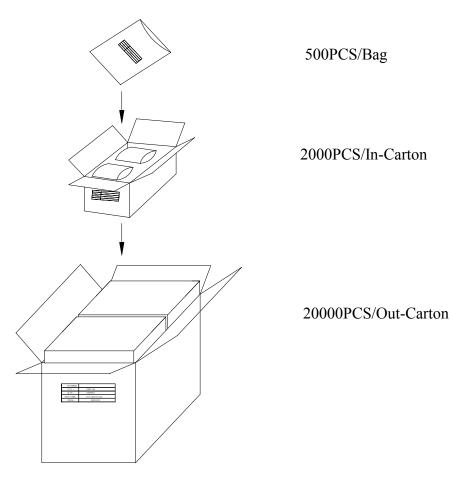
U: Upper Specification Limit

L: Lower Specification Limit

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Packing Specification:





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Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	11-06-2018
Modifies Dominant Wavelength	6	1.1	11-11-2019

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