

Harvatek 3.0mm Round LED LAMP with Holder
HV-32690/260/2UYO

Official Product	HV-32690/260/2UYO	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-020-428
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr. 02 2020	Version of 1.0	Page 1/11

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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

H V - 32690 / 260 / 2UYO

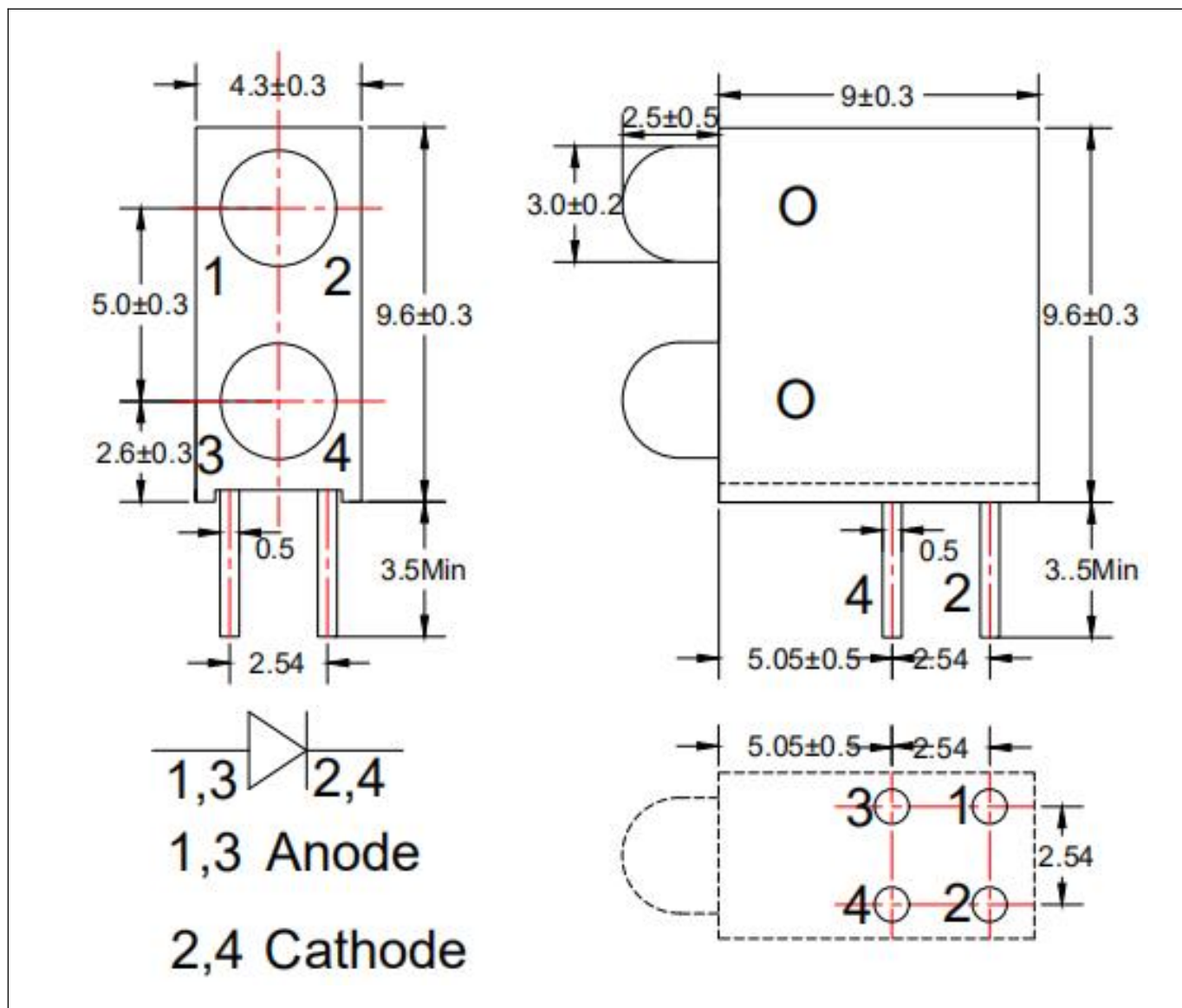
Series Name	Color Code	Remark
HV : HARVATEK	32690: Array 2 Lamp 260 : 3.0mm Round LED Lamp 2UYO: AlGaInP 600nm Orange Chip.	

Features:

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

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Package Dimensions



Notes:

1. All dimensions are millimeters.
2. Tolerance is ± 0.25 mm unless otherwise noted.
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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-40to+85	°C
Storage Temperature	T _{stg}	-40to+100	°C
Soldering Temperature*1	T _{sol}	260±5	°C
Power Dissipation	P _d	75	mW
Reverse Voltage	V _R	5	V
Peak Forward Current*2	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.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{ mA}$	/	2.0	2.5	V
Reverse Current	I_R	$V_R=5\text{ V}$	/	/	10	μA
Luminous Intensity	I_V	$I_F=20\text{ mA}$	100	240	/	mcd
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{ mA}$	/	60	/	deg
Peak Wavelength	λ_p	$I_F=20\text{ mA}$	605	610	/	nm
Dominant Wavelength	λ_d	$I_F=20\text{ mA}$	600	605	/	nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F=20\text{ mA}$	/	20	/	nm

Notes: $\theta_{1/2}$ 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:

I _v (mcd)		
Grade	Min.	Max.
R	100	200
S	160	320
T	250	500

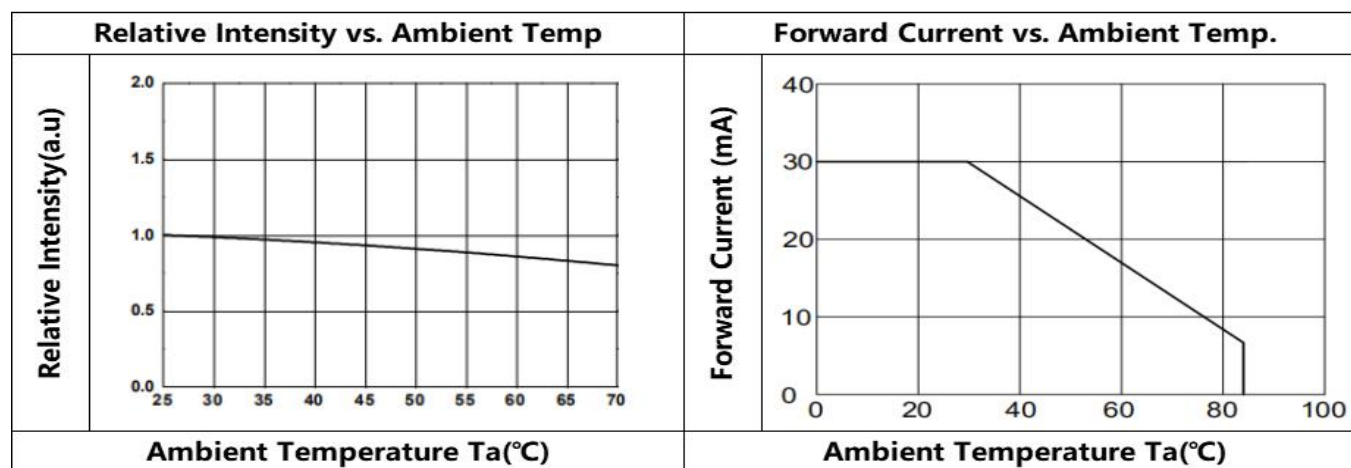
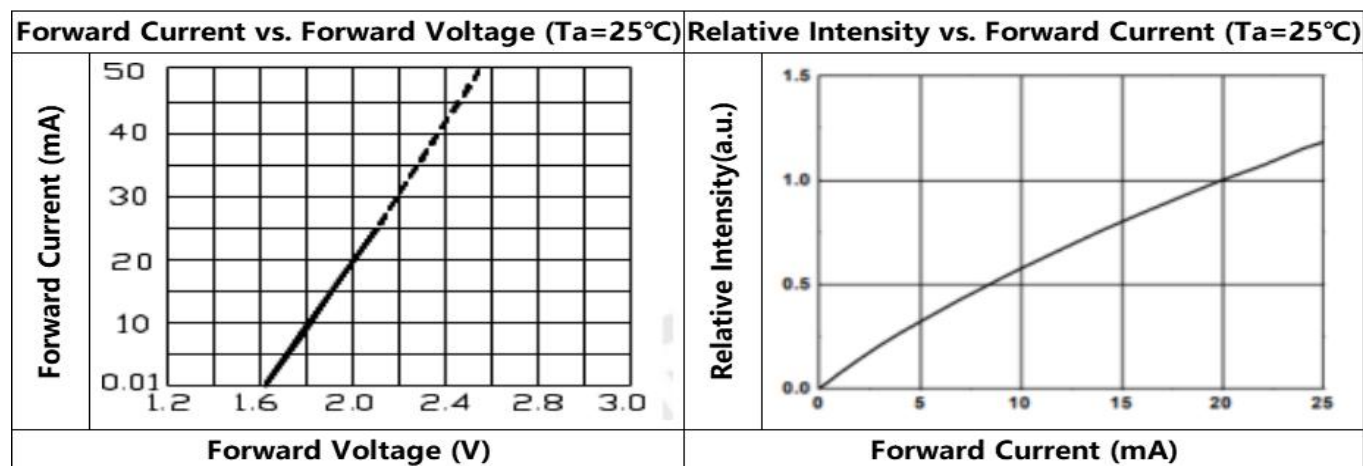
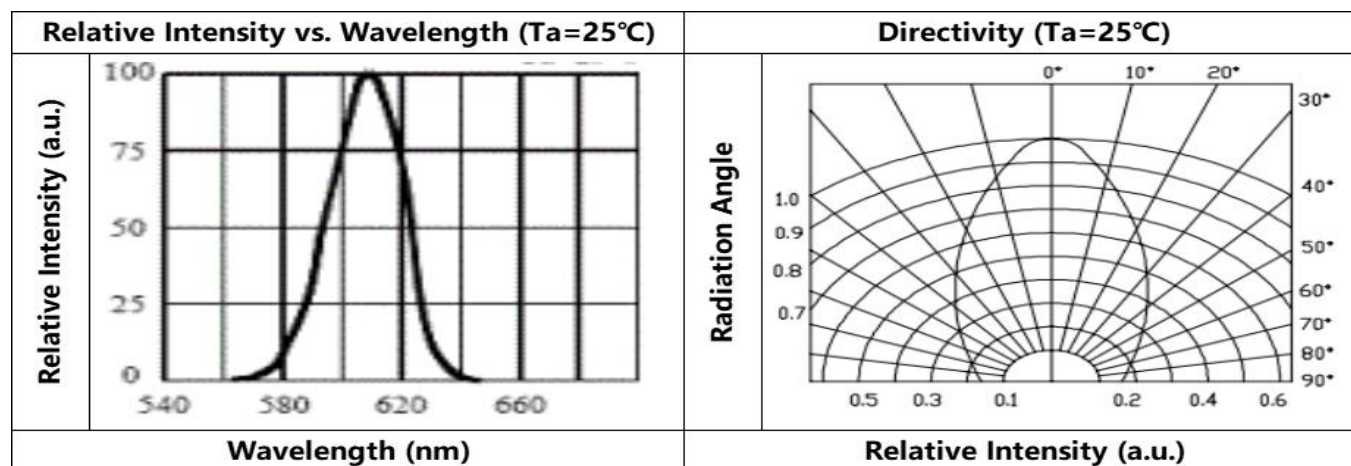
λ_d (nm)		
Grade	Min.	Max.
2	600	603
3	602	605
4	604	607
5	606	609

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	$I_v \leq I_{vt} * 0.5$ or $V_f \geq U$ or $V_f \leq L$	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		0/1
4	High Temperature Storage	TEMP:100°C	1000 HRS	76 PCS		0/1
5	Low Temperature Storage	TEMP:-40°C	1000 HRS	76 PCS		0/1
6	DC Operating Life	TEMP:25°C IF=20mA	1000 HRS	76 PCS		0/1
7	High Temperature / High Humidity	85°C/85%RH	1000 HRS	76 PCS		0/1

Note: I_{vt}: To test I_v value of the chip before the reliability test.

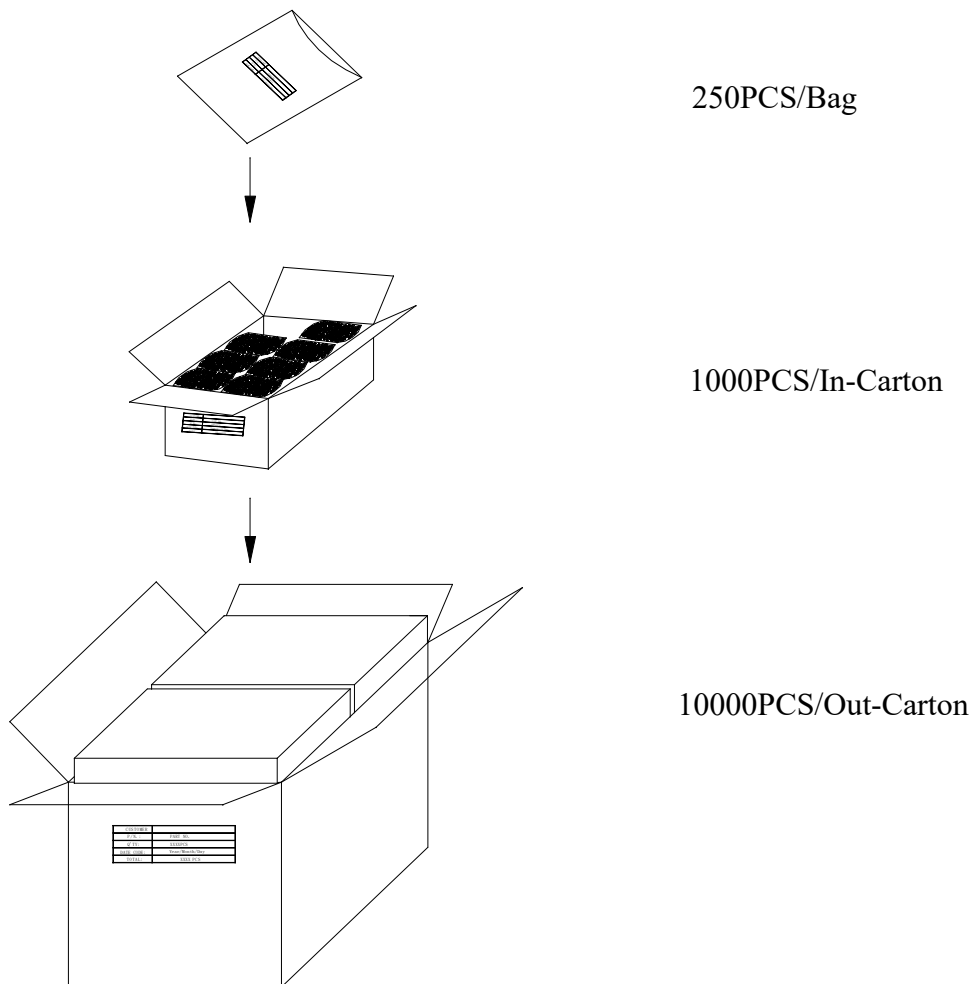
I_v: The test value of the chip that has completed the reliability test

U: Upper Specification Limit

L: Lower Specification Limit

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Packing Specification:



	HARVATEK	
CPN:		RoHs
P/N:		
HV-32690/260/2UYO		
QTY:		CAT:
		HUE:
LOT NO:		REF:

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Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	04-02-2020

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