

Harvatek 3.0mm ROUND LED LAMP HV-57G2304C

Official Product	HV-57G2304C	Customer Part No.		Data Sheet No.
	*********	******		CDAE-010-866
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		May.18 2020	Version of 1.0	Page 1/11



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- 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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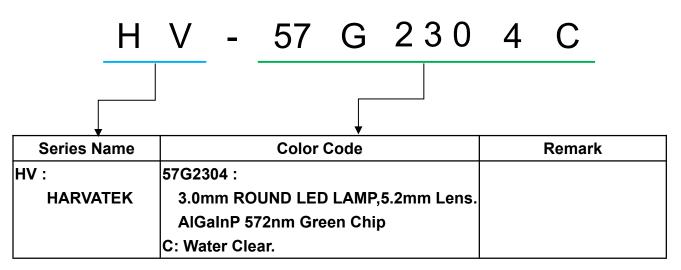


Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified RoHS Compliant



Orderable Information



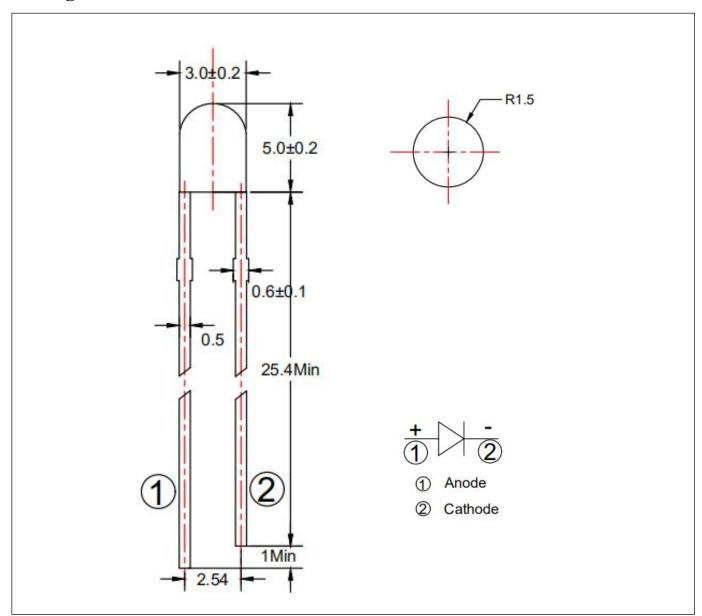
Features:

- Stable Color
- Popular 3.0mm through hole package, 5.2mm lens height.
- Water Clear 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°C

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	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}	IF=20 mA	/	2.0	2.5	V
Reverse Current	I_R	VR= 5 V	/	/	10	μА
Luminous Intensity	I_{V}	IF=20 mA	40	160	/	mcd
Viewing Angle	201/2	IF=20 mA	/	30	/	deg
Dominant Wavelength	$\lambda_{ m d}$	IF=20 mA	566	572	/	nm
Peak Wavelength	λρ	IF=20 mA	570	575	/	nm
Spectrum Radiation Bandwidth	Δλ	IF=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:

Iv (mcd)				
Grade	Min.	Max.		
Р	40	80		
Q	63	125		
R	100	200		
S	160	320		
Т	250	500		

λd (nm)				
Grade	Min.	Max.		
5	566	569		
6	568	571		
7	570	573		
8	572	575		
9	574	577		

Notes:

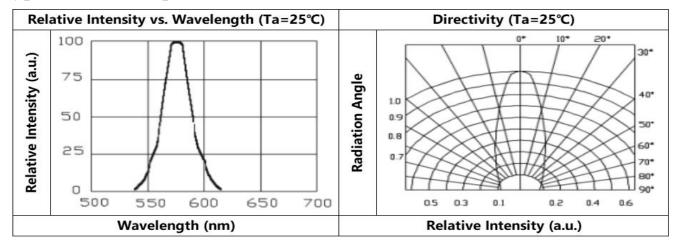
1.Luminous intensity:+/-15%.

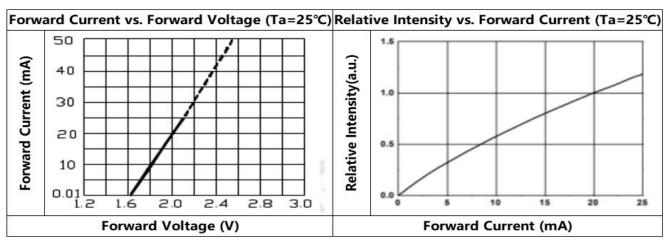
2.Wavelength: +/-1nm

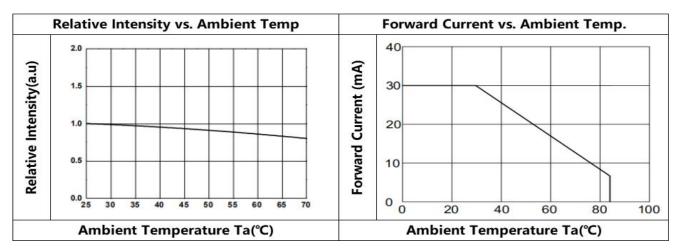
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Typical Electro-Optical Characteristics Curves







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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	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	$Iv \leq Ivt*0.5$ or	0/1
4	High Temperature Storage	TEMP:100°C	1000 HRS	76 PCS	Vf≧U or Vf≦L	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: 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

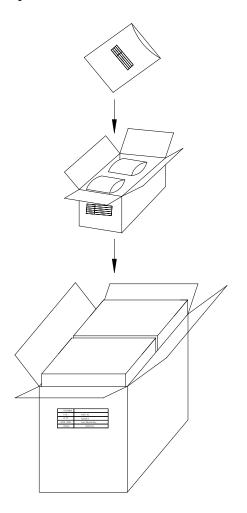
U: Upper Specification Limit

L: Lower Specification Limit

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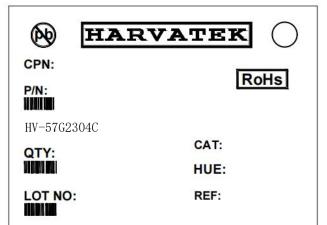
Packing Specification:



1000PCS/Bag

4000PCS/In-Carton

40000PCS/Out-Carton



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Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	05-18-2020

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