

Harvatek 5.0*7.0*2.0mm Square LED LAMP

HV-62R5104D-TR1

Official Product	HV-62R5104D-TR1	Customer Part No.		Customer Part No.		Data Sheet No.
	*****	*********		CDAE-010-677		
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Oct. 31 2019	Version of 1.0	Page 1/12		

HARVATEK

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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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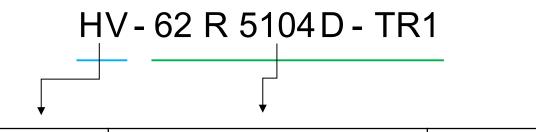


Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified RoHS Compliant



Orderable Information



Series Name	Color Code	Remark
HV :	62R5104:	
HARVATEK	5.0*7.0*2.0mm SQUARE LED LAMP.	
	AlGaInP 622nm Red chip	
	D: Red Diffused	
	TR1:HARVATEK Part No.	

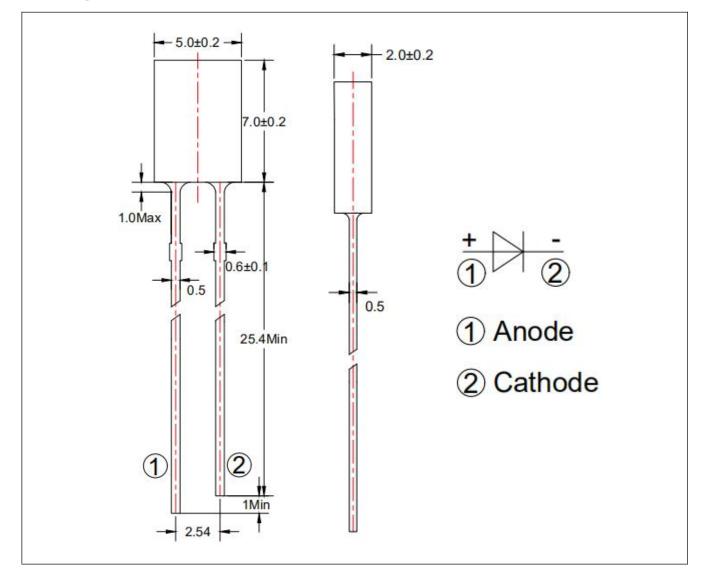
Features:

- Stable Color
- Popular 5.0mm through hole package, 7.0mm lens height.
- Red Diffused lens

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Package Dimensions:



Notes:

- 1.All dimensions are millimeters.
- 2.Tolerance is +/-0.25mm unless otherwise noted.
- 3. Specifications are subject to change without notice.

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Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Operating Temperature	Topr	-40to+85	°C
Storage Temperature	Tstg	-40to+100	°C
Soldering Temperature*1	Tsol	260±5	°C
Power Dissipation	P _d	75	mW
Reverse Voltage	V _R	5	V
Peak Forward Current*2	I_{Fp}	0.1	А

*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	\mathbf{V}_{F}	I _F =20 mA	/	2.0	2.4	V
Reverse Current	I _R	$V_R = 5 V$	/	/	10	μΑ
Luminous Intensity	Iv	I _F =20 mA	/	10	/	mcd
Viewing Angle	2 01/2	I _F =20 mA	/	130	/	deg
Dominant Wavelength	λ_d	I _F =20 mA	618	623	/	nm
Peak Wavelength	λρ	I _F =20 mA	625	630	/	nm
Spectrum Radiation Bandwidth	Δλ	I _F =20 mA	/	40	/	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.	Max.			
J	4	8			
К	6. 3	12. 5			
L	10	20			
М	16	32			
Ν	25	50			
Р	40	80			
Q	63	125			
R	100	200			

	λd (nm)					
Grade	Min.	Max.				
01	618	621				
1	620	623				
2	622	625				
3	624	627				
4	626	629				
5	628	631				

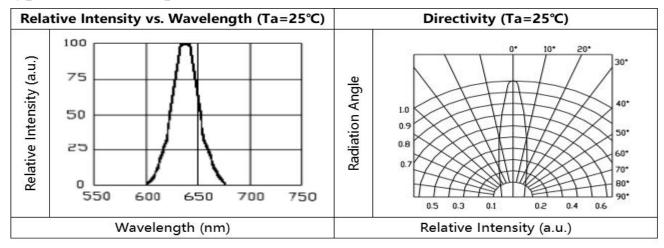
Notes:

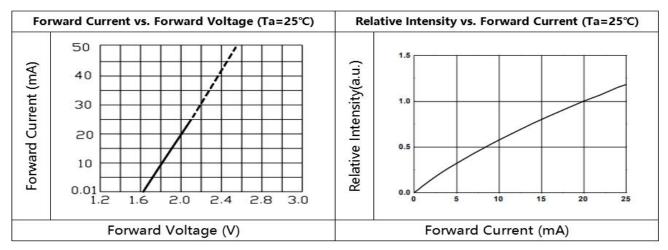
1.Luminous intensity:+/-15%.

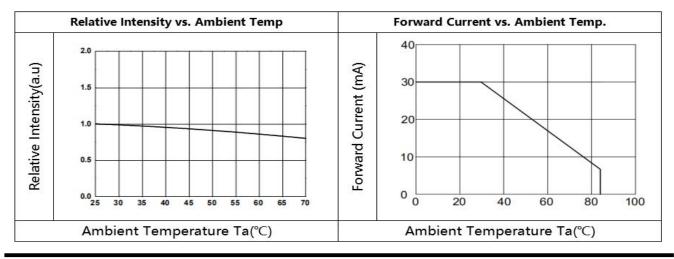
2.Wavelength: +/-1nm.

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Typical Electro-Optical Characteristics Curves



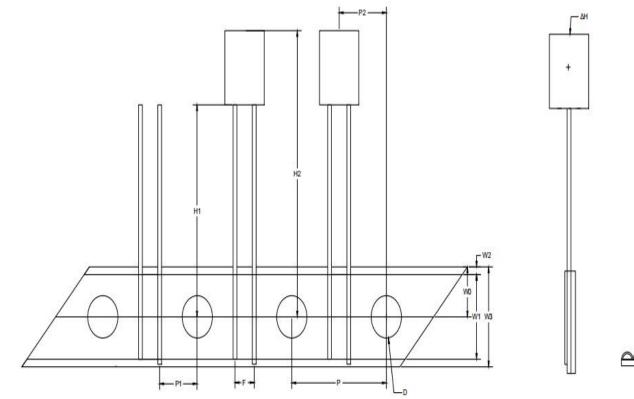




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Carrier Tape Dimensions:



Notes:

Lead spacing is measured where the lead emerge from the package

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Taping Sizes

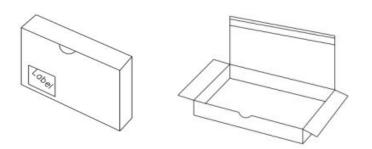
	Symbol	Specifications			
Symbol Items		Avg.		Tolerance	
		mm	Inch	(mm)	
Tape Feed Hole Diameter	D	4.0	0.157	±0.2	
Component Lead Pitch	F	2.54	0.100	+0.8/-0.2	
Front-to-Read Deflectio	$\Delta \mathrm{H}$	2°	0.078	$\pm 5^{\circ}$	
Feed Hole to Button of Component	H1	18.5	0.730	±1.0	
Feed Hole to Overall Component Height	H2	25.0	1.262	±1.0	
Feed Hole Pitch	Р	12.5	0.500	±0.3	
Lead Location	P1	4.5	0.200	±0.7	
Center of Component Location	P2	5.0	0.250	±1.2	
Overall Taped Package Thickness	Т	1.42	0.056	MAX	
Feed Hole Location	W0	8.5	0.354	±0.5	
Adhesive Tape Width	W1	13.5	0.512	±0.5	
Adhesive Tape Position	W2	2.0	0.079	MAX	
Tape Width	W3	18.0	0.709	±0.75	

Note: Tolerances unless mentioned ± 0.1 mm. Unit = mm

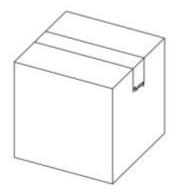
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Packing Specification:



2500PCS/In-Carton



25000PCS/Out-Carton

₿ HARV	HARVATEK			
CPN: P/N:		RoHS		
HV-62R5104D-TR1	CAT: HUE: REF:			

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Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	10-31-2019

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