

Harvatek 3.0mm Round LED LAMP**HV-64R3004D**

Official Product	HV-64R3004D	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2	Page 1/10

DISCLAIMER

HARVATEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. HARVATEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

LIFE SUPPORT POLICY

HARVATEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of the President of HARVATEK or HARVATEK INTERNATIONAL. As used herein:

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.

Official Product	HV-64R3004D	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2	Page 2/10

Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified

RoHS Compliant



Orderable Information

H V - 64 R 3004 D

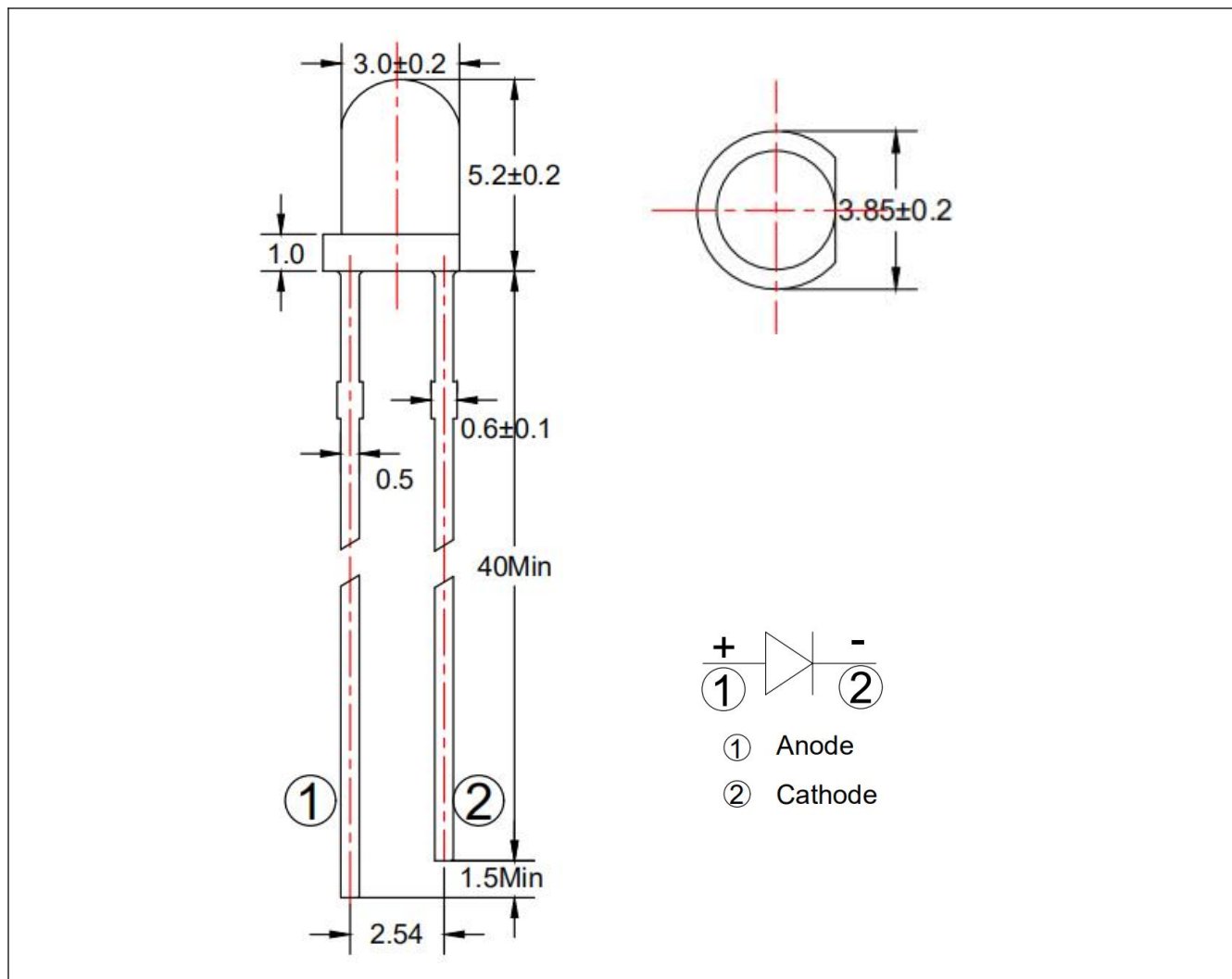
Series Name	Color Code	Remark
HV : HARVATEK	64R3004: 3.0mm Round LED LAMP,5.3mm Lens. GaAsP 638nm Red chip D : Red Diffused	

Features:

- Stable Color
- Popular 3.0mm through hole package, 5.3mm lens height.
- Red Diffused lens

Official Product	HV-64R3004D	Customer Part No.	Data Sheet No.
	*****	*****	CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2
			Page 3/10

Package Dimensions:



Notes:

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

Official Product	HV-64R3004D	Customer Part No.	Data Sheet No.
	*****	*****	CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2
		Page 4/10	

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 ≒ 5 seconds. *2 tw=100u second T=10m second.

Official Product	HV-64R3004D	Customer Part No.	Data Sheet No.
	*****	*****	CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2
			Page 5/10

Electrical and Optical Characteristic

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=10\text{ mA}$	/	2.0	2.6	V
Reverse Current	I_R	$V_R=5\text{ V}$	/	/	10	μA
Luminous Intensity	I_V	$I_F=20\text{ mA}$	10	30	/	mcd
Viewing Angle	$2\theta_{1/2}$	$I_F=10\text{ mA}$	/	60	/	deg
Dominant Wavelength	λ_d	$I_F=10\text{ mA}$	632	638	/	nm
Peak Wavelength	λ_p	$I_F=10\text{ mA}$	650	655	/	nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F=10\text{ mA}$	/	30	/	nm

Notes:

1. $\theta_{1/2}$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Official Product	HV-64R3004D	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2	Page 6/10

Specifications for Bin Grading:

I _v (mcd)		
Grade	Min.	Max.
L	10	20
M	16	32
N	25	50
P	40	80
Q	63	125

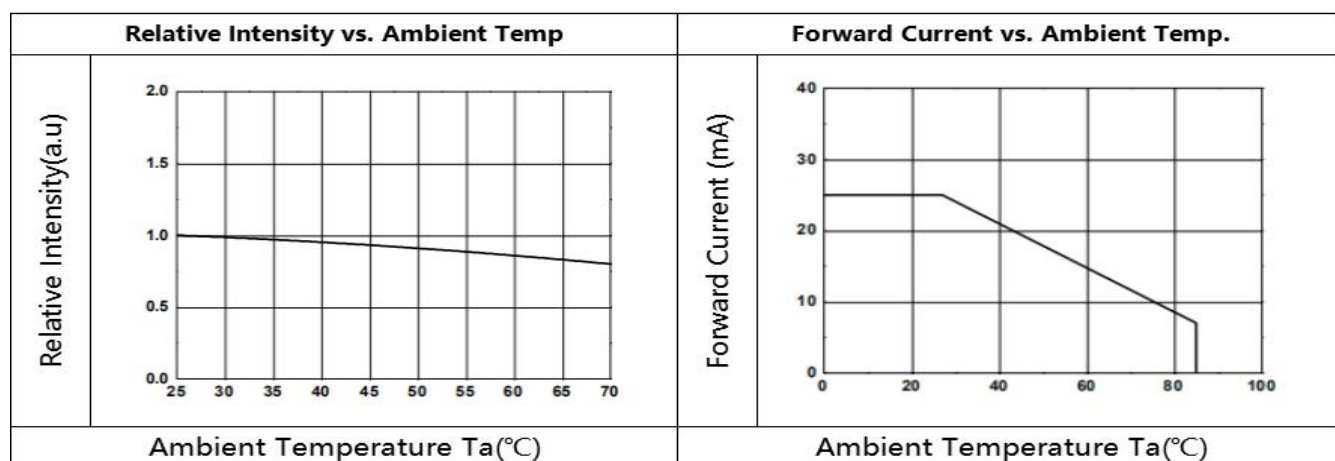
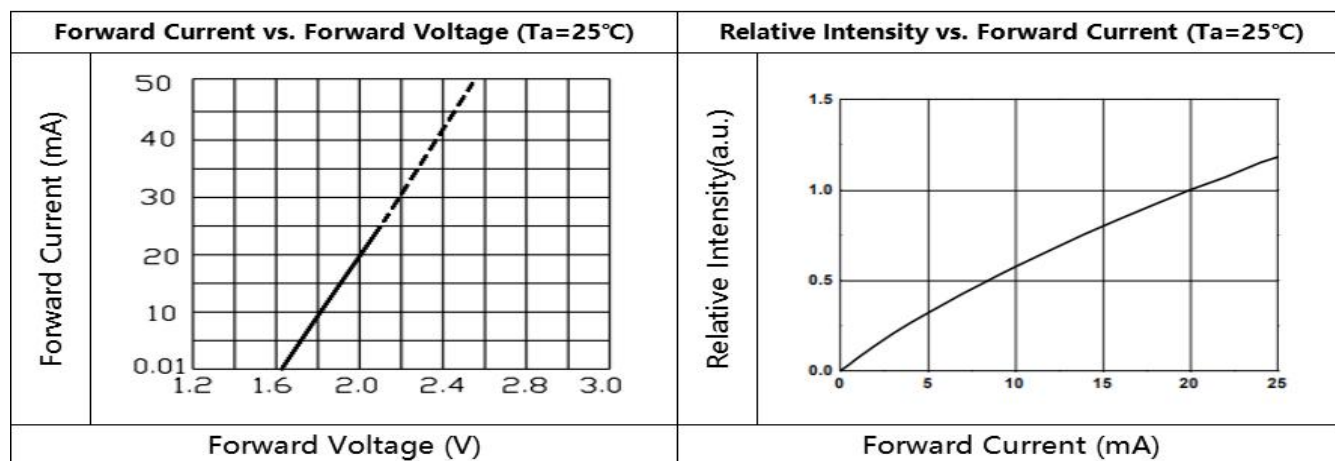
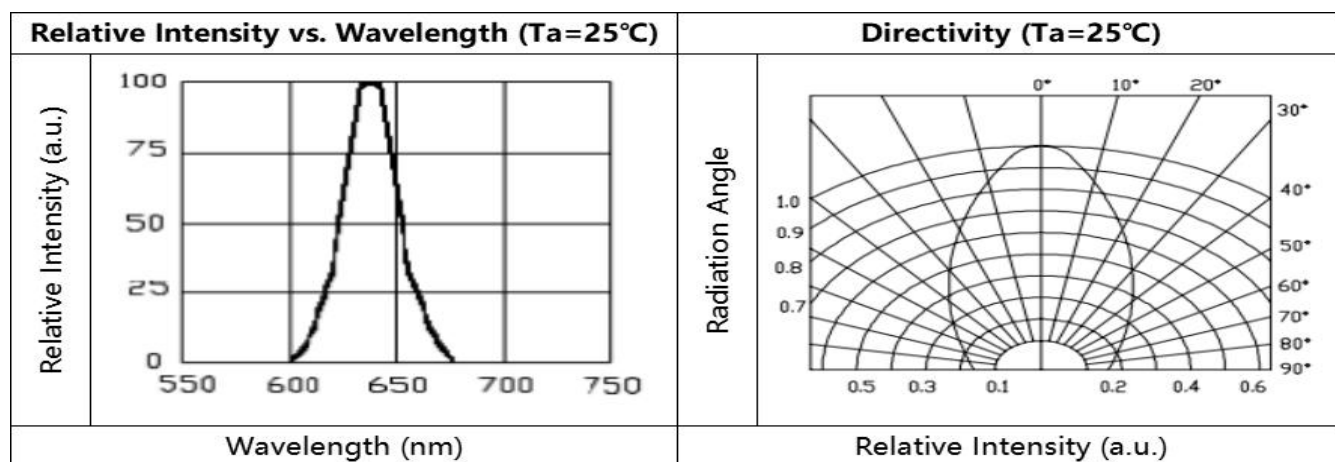
λ_d (nm)		
Grade	Min.	Max.
6	632	635
7	634	637
8	636	639
9	638	641
10	640	643

Notes:

- 1.Luminous intensity: +/-15%.
- 2.Wavelength: +/-1nm.

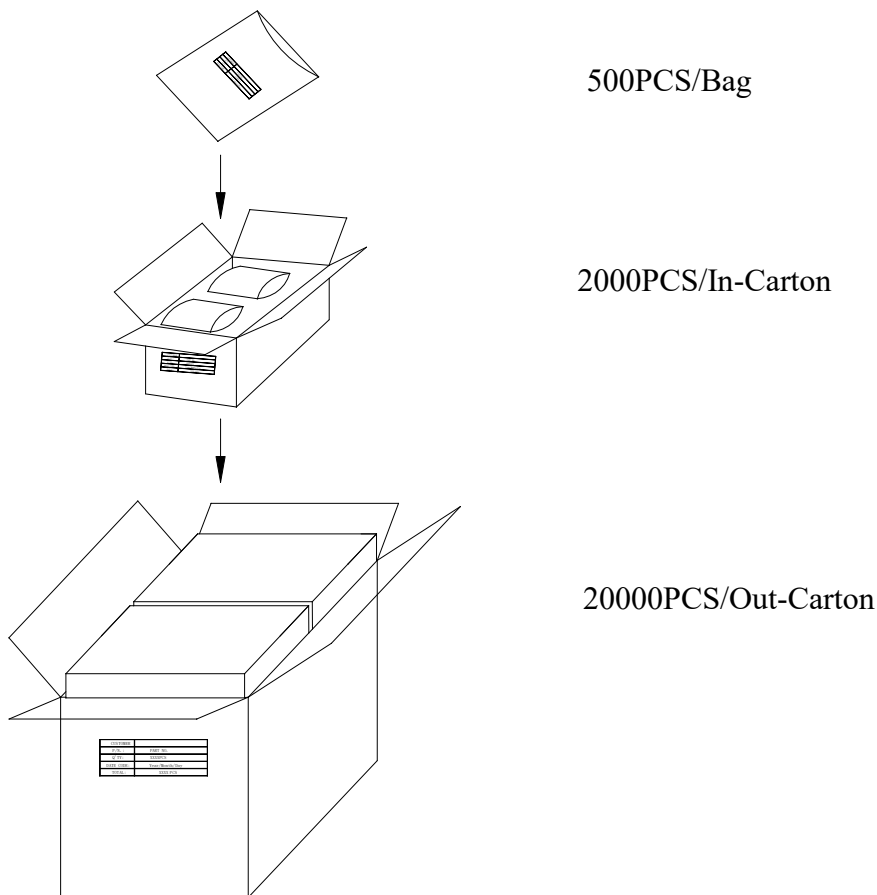
Official Product	HV-64R3004D	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2	Page 7/10

Typical Electro-Optical Characteristics Curves



Official Product	HV-64R3004D	Customer Part No.	Data Sheet No.
	*****	*****	CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2
		Page 8/10	

Packing Specification:



Official Product	HV-64R3004D	Customer Part No.		Data Sheet No.
	*****	*****		CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Apr.09 2020	Version of 1.2	Page 9/10

Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	09-16-2019
Modification of packaging	9	1.1	04-08-2020
Revisions on drawings	4	1.2	04-09-2020

Official Product	HV-64R3004D	Customer Part No.	Data Sheet No.
	*****	*****	CDAE-010-654
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	Apr.09 2020	Version of 1.2	Page 10/10