

#### Harvatek International 5.0mm ROUND IR LED LAMP HV-8IR20WCXHB-E0000

Official Product	HV-8IR20WCXHB-E0000	Customer Part No.		Data Sheet No.
	*****	*********		HV-8IR20WCXHB-E0000
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Oct. 24 2017	Version of 1.0	Page 1/8

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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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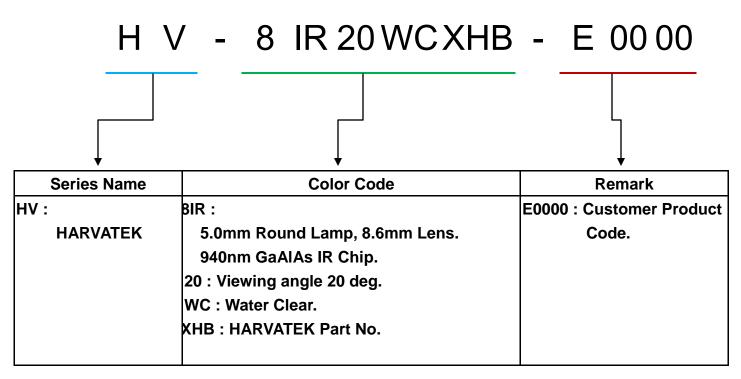


## **Compliance and Certification**

ISO9002, QS9000 and ISO14001 Certified RoHS Compliant



## **Orderable Information**

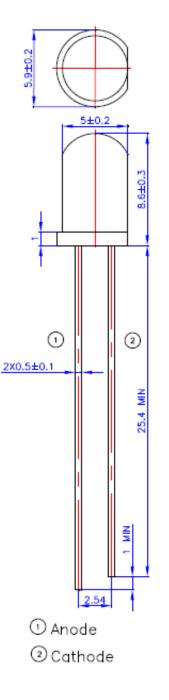


#### Features:

- Stable Color
- Popular 5.0mm through hole package, 8.6mm lens height.
- Water Clear Lens.

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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	IF	100	mA
Operating Temperature	Topr	-40to+85	°C
Storage Temperature	Tstg	-40to+100	°C
Soldering Temperature*1	Tsol	260±5	°C
Power Dissipation	Pd	75	mW
Reverse Voltage	VR	5	V
Peak Forward Current*2	IFp	1.0	А

\*1:Soldering time  $\leq$  5 seconds. \*2 tw=100u second T=10m second.

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## **Electrical and Optical Characteristic**

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Essent Values	v	I <sub>F</sub> =20 mA	,	1.2	1.5	v
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =100 mA *1	/	1.4	1.8	v
Reverse Current	I <sub>R</sub>	$V_R = 5 V$	/	/	10	μA
T 1 T. N	T	I <sub>F</sub> =20 mA	10.0	35.0	/	mW/Sr
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =100 mA *1	40.0	120.0		
Viewing Angle	201/2	I <sub>F</sub> =20 mA	/	20	/	deg
Peak Wavelength	λρ	I <sub>F</sub> =20 mA	/	940	/	nm
Spectrum Radiation	Δλ	I <sub>F</sub> =20 mA	/	40	/	nm
Bandwidth		- <sub>F</sub> _ • · · · · ·				

\*1 Pulse Width  $\leq 100~{\rm us}$  , Duty  $\leq 1\%$ 

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

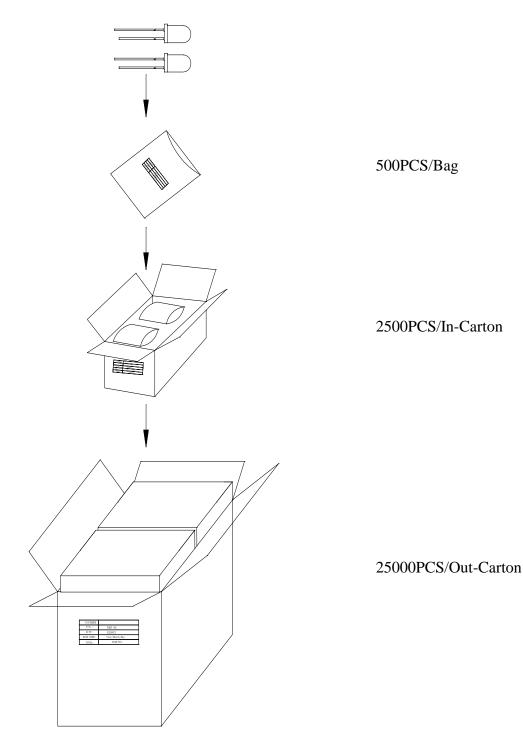
2.Luminous intensity:+/-15%.

3.Wavelength: +/-1nm.

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#### **Packing Specification:**





#### **Revision History**

Revision	Page	Version No.	Revision Date
Initial Release		1.0	10-24-2017

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