

**Harvatek 3.0mm Round LED LAMP with Holder**  
**HV-F7UGUY45H-MP9B**

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 1/8

## 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-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 2/8

## Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified

RoHS Compliant



## Orderable Information

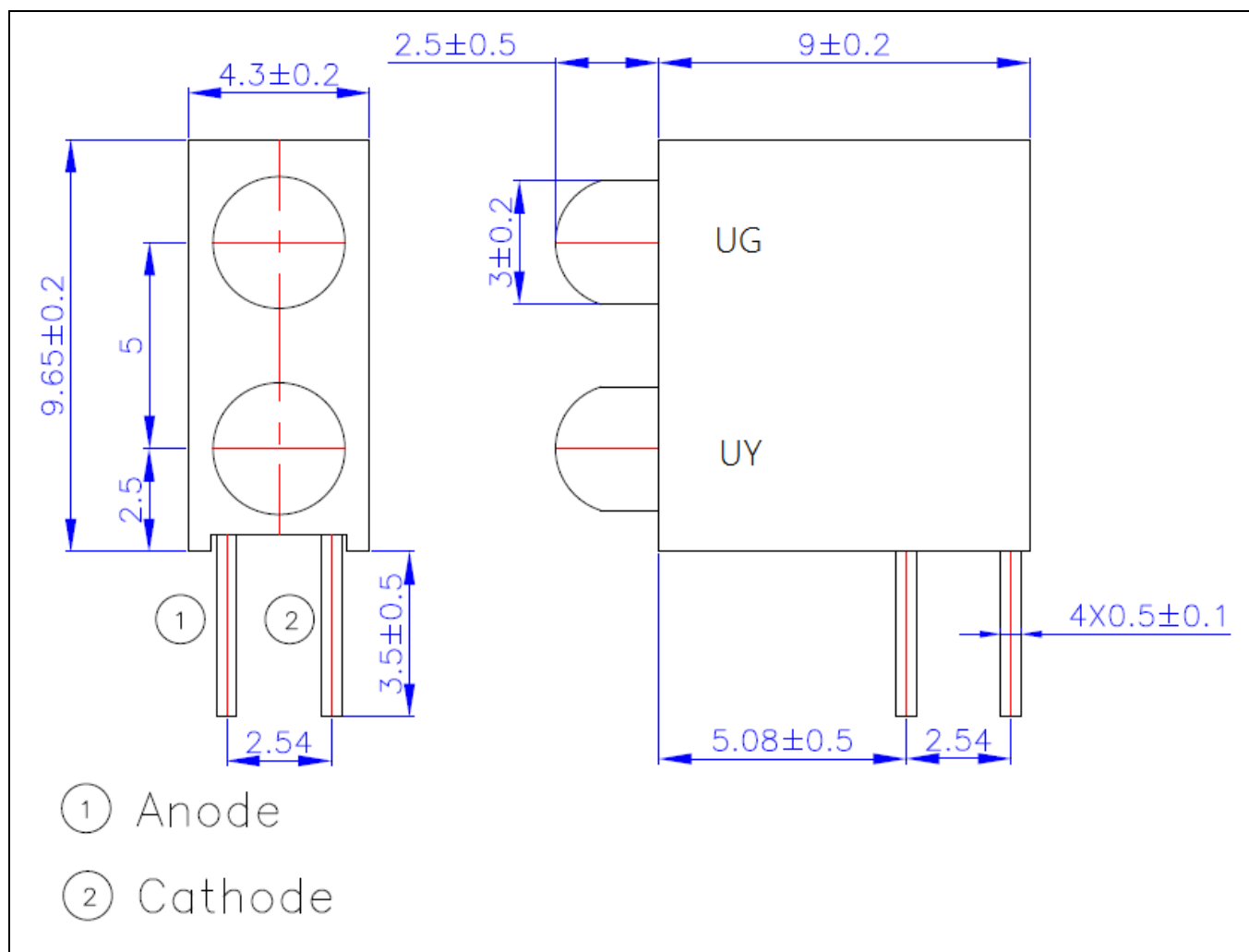
**H V - F7UGUY45H - MP9 B**

Series Name	Color Code	Remark
HV : HARVATEK	F7UGUY : 3.0mm Round LED Lamp With Holder. With AlGaInP 571nm Green Chip & AlGaInP 590nm Yellow Chip. 45 : Viewing angle 45 deg. H : HARVATEK Part No. MP9 : Square HOLDER. B : 2 LAMP	

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.	Data Sheet No.
	*****	*****	HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	Feb. 26 2018	Version of 1.0	Page 3/8

### Features:

- Stable Color
- Popular 3.0mm through hole package.
- Green Diffused & Yellow Diffused lens.



### Notes:

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

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.	Data Sheet No.
	*****	*****	HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	Feb. 26 2018	Version of 1.0	Page 4/8

**Absolute Maximum Ratings at Ta=25°C**

Parameter	Symbol	Rating	Unit
Forward Current	IF	30	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	0.1	A

\*1: Soldering time  $\leq$  5 seconds. \*2: Pulse Width  $\leq$  100  $\mu$  s and Duty  $\leq$  1% .

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 5/8

## Electrical and Optical Characteristic

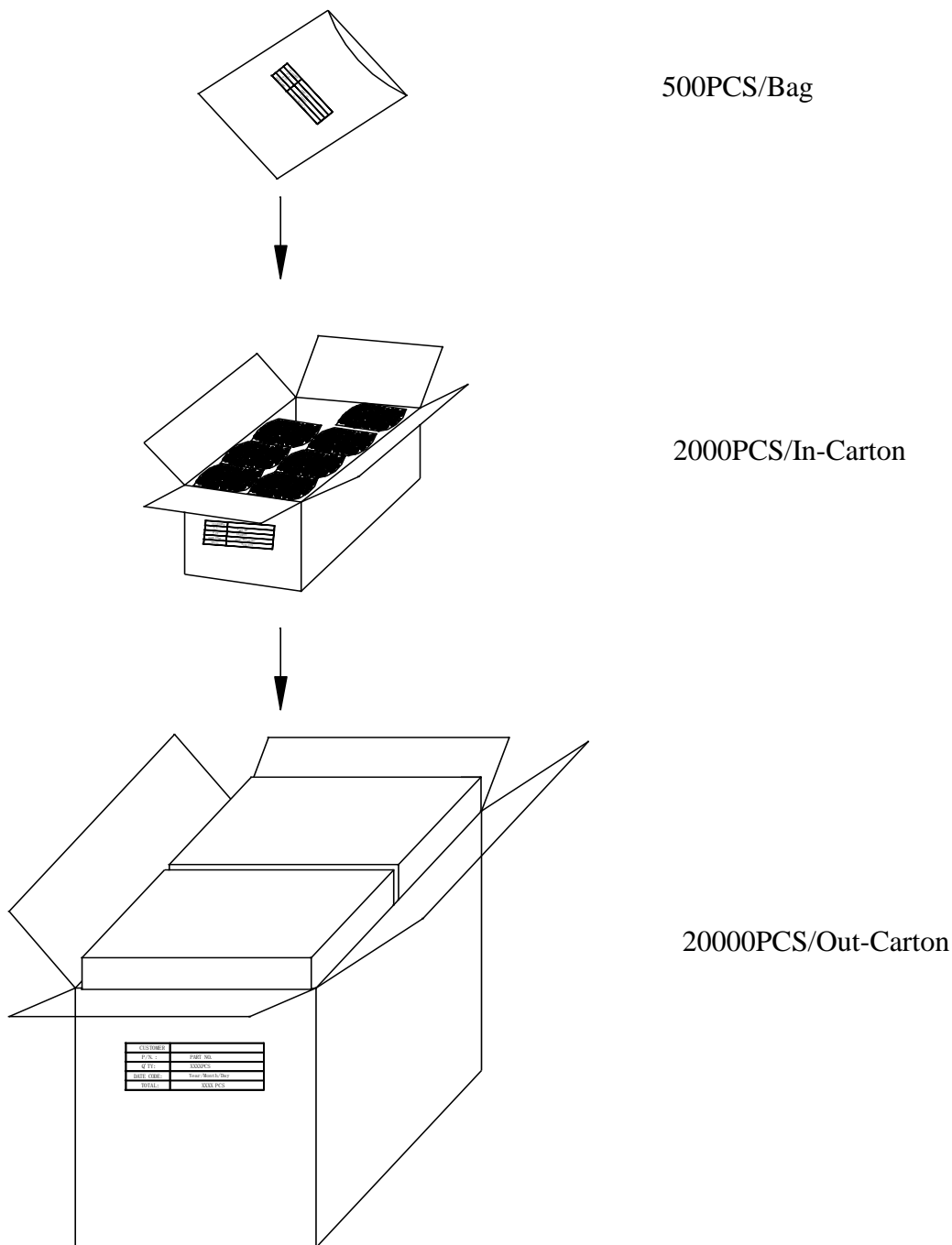
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	IF=20 mA	1.7	2.0	2.5	V
Reverse Current	$I_R$	VR= 5 V	/	/	10	$\mu$ A
Luminous Intensity	$I_V$	IF=20 mA	UG	20	60	mcd
			UY	100	300	
Viewing Angle	2 $\theta$ 1/2	IF=20 mA	/	45	/	deg
Peak Wavelength	$\lambda_p$	IF=20 mA	UG	/	574	nm
			UY	/	592	
Dominant Wavelength	$\lambda_d$	IF=20 mA	UG	/	571	nm
			UY	/	590	
Spectrum Radiation Bandwidth	$\Delta\lambda$	IF=20 mA	/	25	/	nm

### Notes:

1. $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2.Luminous intensity: +/-15%.
- 3.Wavelength: +/-1nm.

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 6/8

### Packing Specification:



Official Product	HV-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 7/8

**Revision History**

Revision	Page	Version No.	Revision Date
Initial Release		1.0	02-26-2018

---

Official Product	HV-F7UGUY45H-MP9B	Customer Part No.		Data Sheet No.
	*****	*****		HV-F7UGUY45H-MP9B
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Feb. 26 2018	Version of 1.0	Page 8/8