

Harvatek 4.2x3.3x4.1mm Lead Frame Type SMD LED HVD-L423341PDBDH-TR1

Official Product	HVD-L423341PDBDH-TR1	Customer Part No.		Data Sheet No.
	********	*******		HVD-L423341PDBDH-TR1
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Sep.12 2019	Version of 1.0	Page 1/10



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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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	Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Version of 1.0	Page 2/10



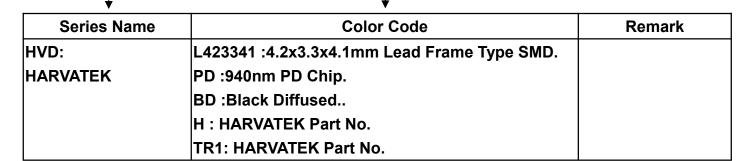
Compliance and Certification

ISO9002, QS9000 and ISO14001 Certified RoHS Compliant



Orderable Information

HV D - L 42 33 4 1 P D B D H -TR1



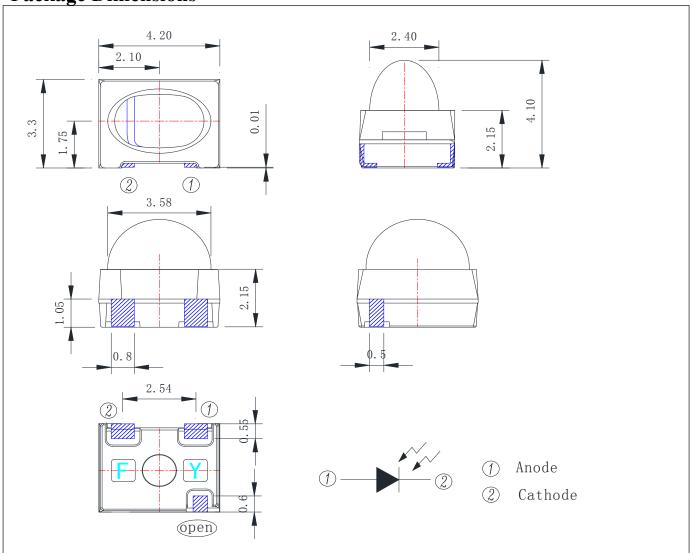
Features:

- Stable Color
- Popular 4.2x3.3x4.1mm SMD Type package.
- Black 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.

Official Product	HVD-L423341PDBDH-TR1	Customer Part No.		Data Sheet No.
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Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	32	V
Operating Temperature	Topr	-25to+85	$^{\circ}$
Storage Temperature	Tstg	-25to+85	$^{\circ}$
Soldering Temperature*1	Tsol	260±5	$^{\circ}$
Power Dissipation	Pd	150	mW

^{*1:}Soldering time \leq 5 seconds.

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Electrical and Optical Characteristic

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	BV_R	Ee=0,I _R =100uA	32	/	/	V
Open Circuit Voltage	Voc	Voc		0.44	/	V
Dark Current	Id	$Ee=0, V_R=10V$	/	/	100	nA
Reverse Light Current	I_L	Ee=1mw/cm ² $\Lambda \rho$ =940nm V_R =5V	/	3.1	/	uA
Total Capacitance	Ct	$Ee=0$ $V_R=5V$ $f=1mH_Z$		18	/	pF
Peak Wavelength	λρ	I _F =20 mA	/	940	/	nm
Rang of Spectral Bandwidth	$\lambda_{0.5}$	I _F =20 mA	850	/	1100	nm
Rise Time	$t_{\rm r}$	$V_{CE}=10V$	/	10	/	nS
Fall Time	t _f	$R_L=100\Omega$	/	10	/	nS

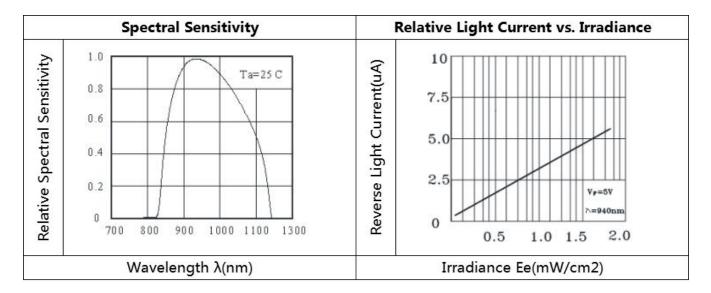
Specifications for Bin Grading:

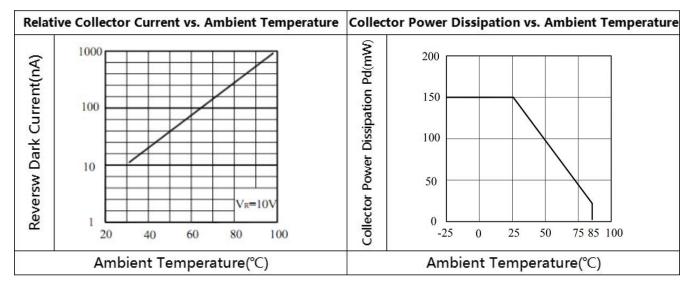
I _L (uA)				
Grade	Min.	Max.		
K-4	2. 24	3. 6		
L-5	2. 4	4. 2		

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Typical Electro-Optical Characteristics Curves

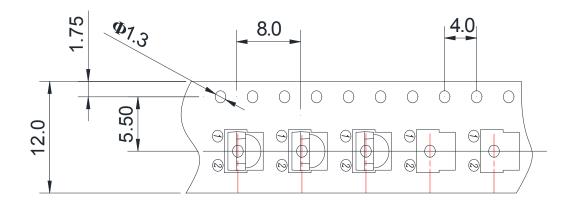




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Taping Dimension





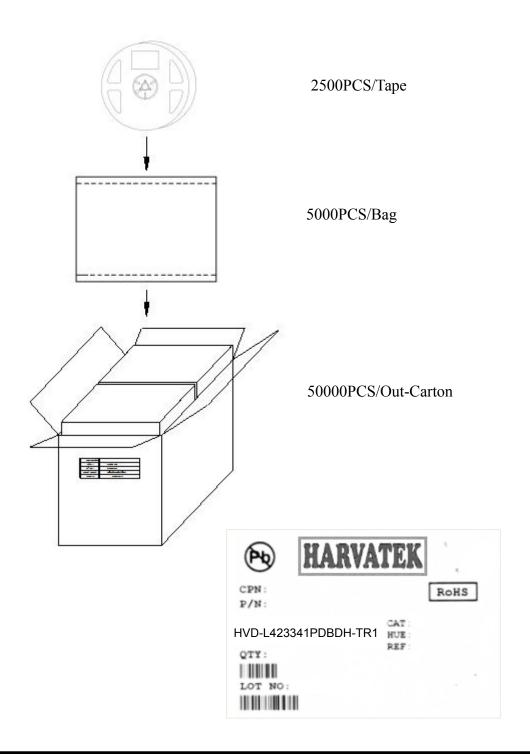




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Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Sep.12 2019	Version of 1.0	Page 8/10



Packing Specification:



Official Product	HVD-L423341PDBDH-TR1	Customer Part No.		Data Sheet No.
	********	*******		HVD-L423341PDBDH-TR1
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Sep.12 2019	Version of 1.0	Page 9/10



HVD-L423341PDBDH-TR1 4.2x3.3x4.1mm Lead Frame Type SMD LED

Revision History

Revision	Page	Version No.	Revision Date
Initial Release		1.0	09-12-2019

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Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Sep.12 2019	Version of 1.0	Page 10/10