

Harvatek International Infrared Through-Hole Lamp**HE3-1100AC-XXXX**

Official Product	HE3-1100AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE3-1100AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0
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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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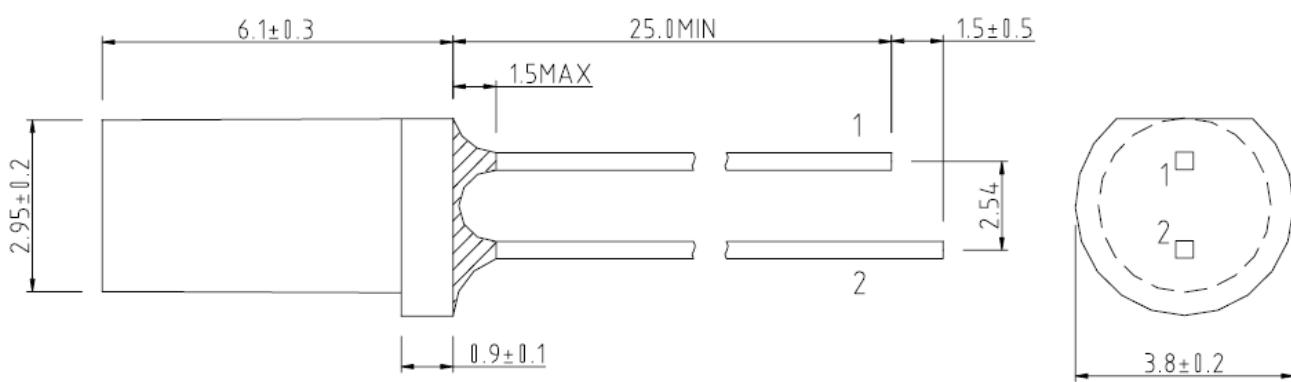
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Orderable Information

H E 3 - 1 1 0 0 A C - X X X X

Series Name	Description Code	Customer Code
HE3: Harvatek IR Lamp, 940 nm	1100AC: 3mm with 100 degree viewing angle	XXXX Customer Product Code

Dimensional Drawing:



Dimensions are in mm

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Absolute Maximum Rating (@ 25°C)

Parameter	Symbol	Spec	Unit
Power Dissipation	P _D	170	mW
Reverse Voltage	V _R	5	V
Forward Current	I _F	100	mA
Reverse Current	I _R	10	µA
Pulse Forward Current	I _{FP}	1	A
Operating Temperature Range	T _{OPR}	-25 to +75	° C
Storage Temperature Range	T _{STG}	-25 to +100	° C

* Lead Soldering Temperature (3mm from body), 260° C for 5 seconds.

Electrical and Optical Characteristics (@ 25°C)

Parameter	Symbol	min.	Spec typ.	max.	Unit	Condition
Radiant Intensity	I _E	4.0	7.0	—	mW/sr	I _F = 50 mA
Forward Voltage	V _F	—	1.35	1.70	V	I _F = 100 mA
Peak Wavelength	λ _P	—	940	—	nm	I _F = 50 mA
Spectral Bandwidth @ 50%	Δλ	—	50	—	nm	I _F = 50 mA
Viewing Angle	2θ½	—	100	—	degrees	I _F = 50 mA

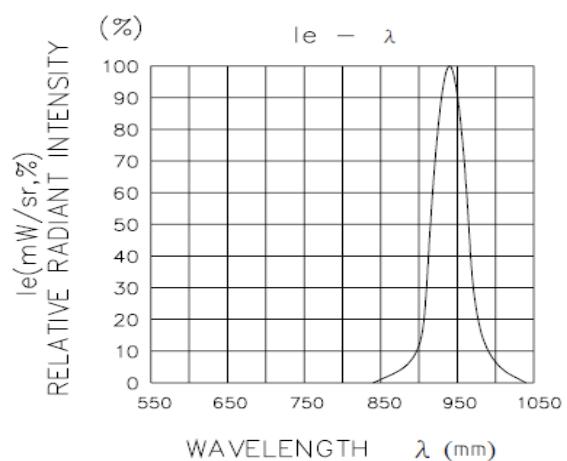
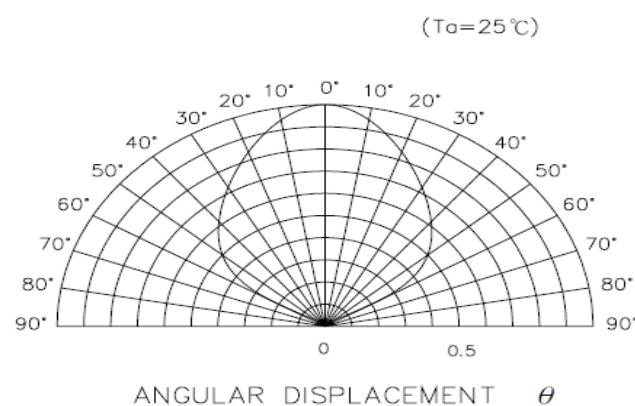
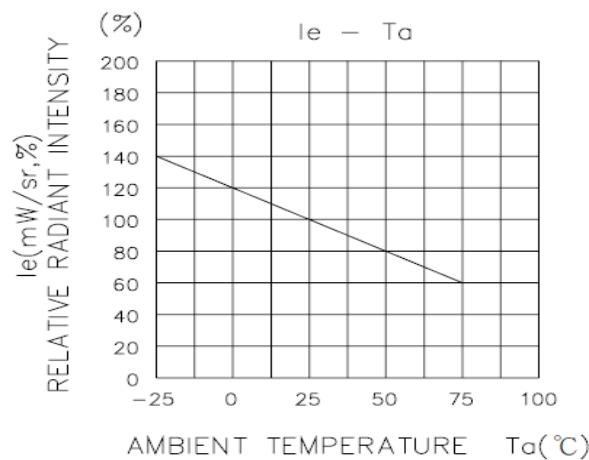
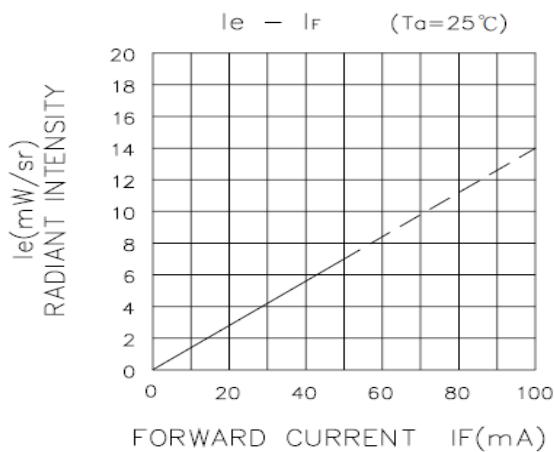
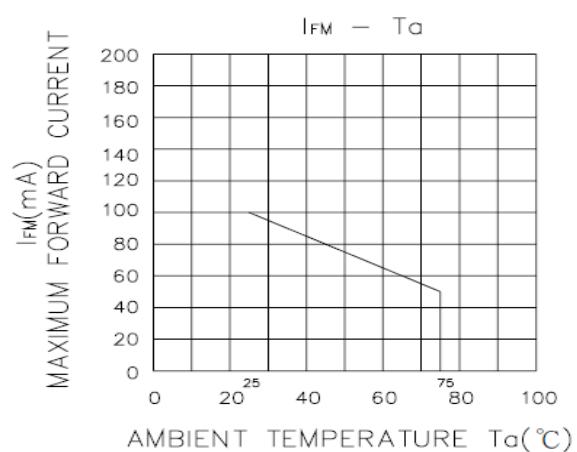
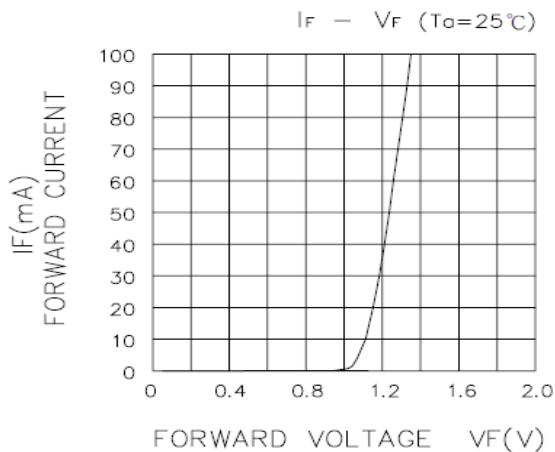
Radiant Intensity Measurement Tolerance = ± 15%

Forward Voltage Measurement Tolerance = ± 0.05V

Peak Emission Wavelength Tolerance = ± 1 nm

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Characteristic Curves

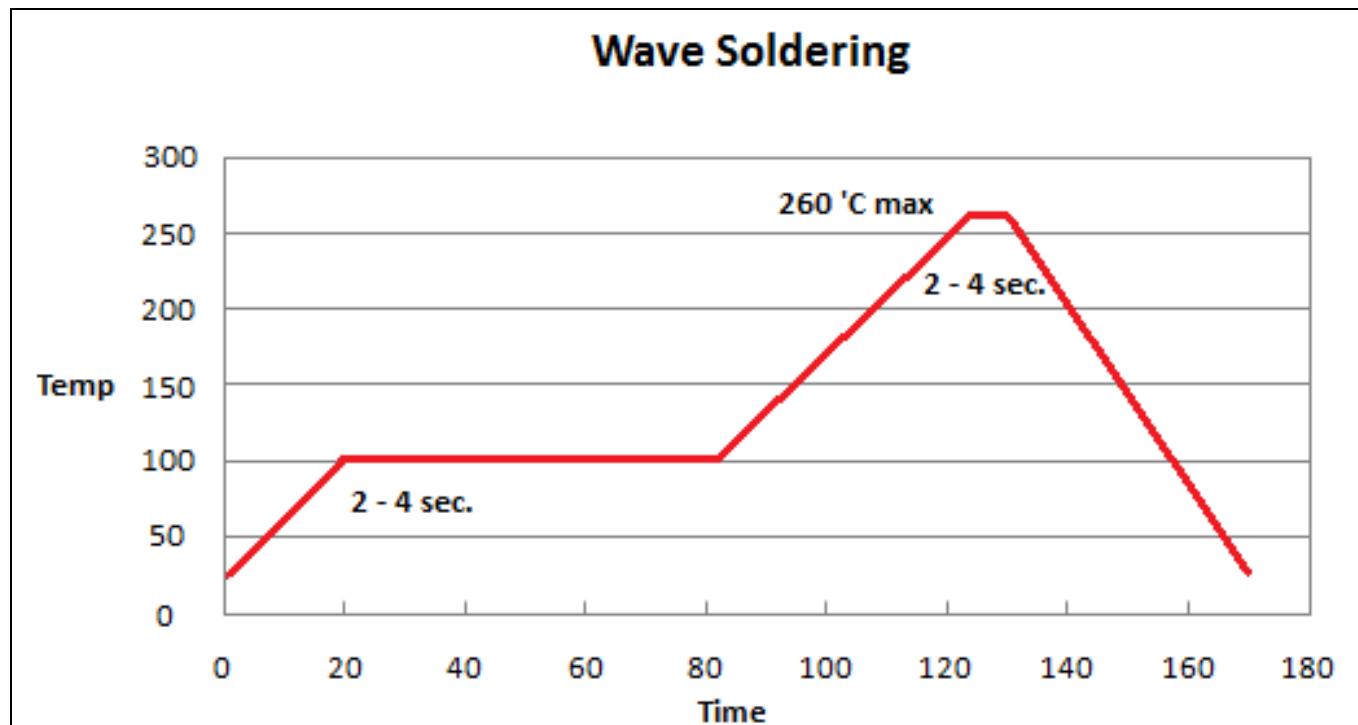


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Soldering Profile

Method	Lead Frame Type / Holder Type
Hand Soldering	<ol style="list-style-type: none">1. Temperature at tip of iron: 400° C MAX (30W MAX).2. Soldering time: 3 seconds MAX3. Distance: 3mm MIN (from solder joint to case)
DIP Soldering	<ol style="list-style-type: none">1. Preheat temperature: 100° C MAX, 60 seconds MAX2. Bath temp: 260° C MAX3. Bath time: 5 seconds MAX4. Distance: 3 mm MIN (from solder joint to case).
Reflow Soldering	NO

Compliant with the following condition:



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Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release – XXXX		1.0	08-05-2009

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