

Harvatek International Infrared Through-Hole Lamp**HE1-240AC-XXXX**

Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0

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.

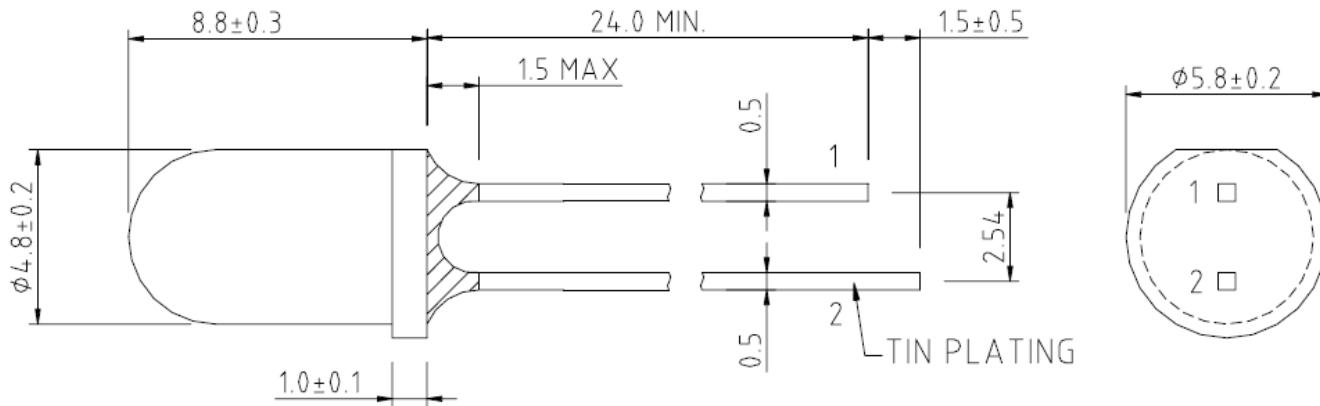
Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0
		Page 2/7

Orderable Information

H E 1 - 2 4 0 A C - X X X X

Series Name	Description Code	Customer Code
HE1: Harvatek IR Lamp, 850 nm	240AC: 5mm with 40 degree viewing angle	XXXX Customer Product Code

Dimensional Drawing:



Dimensions are in mm

Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		Page 3/7
August 5, 2009		Version of 1.0

Absolute Maximum Rating (@ 25°C)

Parameter	Symbol	Spec	Unit
Power Dissipation	P _D	200	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 (5mm 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	20.0	40.0	—	mW/sr	I _F = 50 mA
Forward Voltage	V _F	—	1.6	2.0	V	I _F = 100 mA
Peak Wavelength	λ _P	—	850	—	nm	I _F = 50 mA
Spectral Bandwidth @ 50%	Δλ	—	42	—	nm	I _F = 50 mA
Viewing Angle	2θ½	—	40	—	degrees	I _F = 50 mA

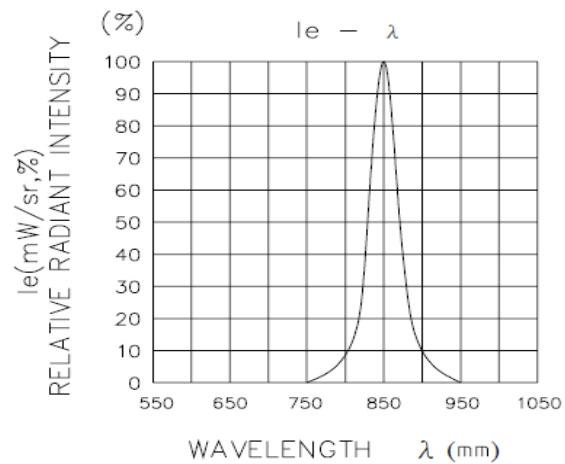
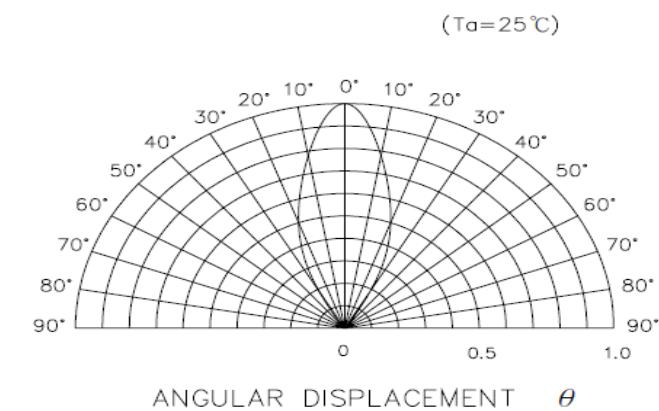
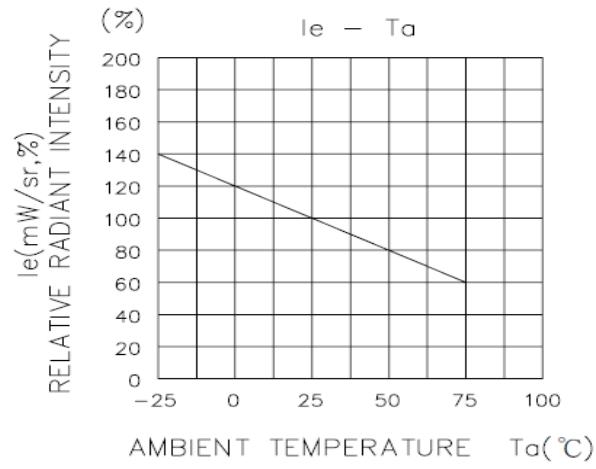
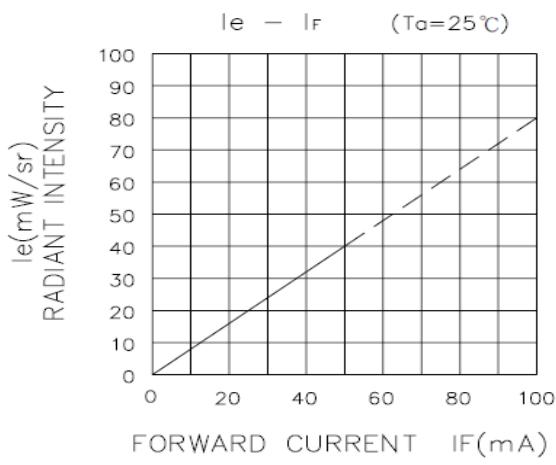
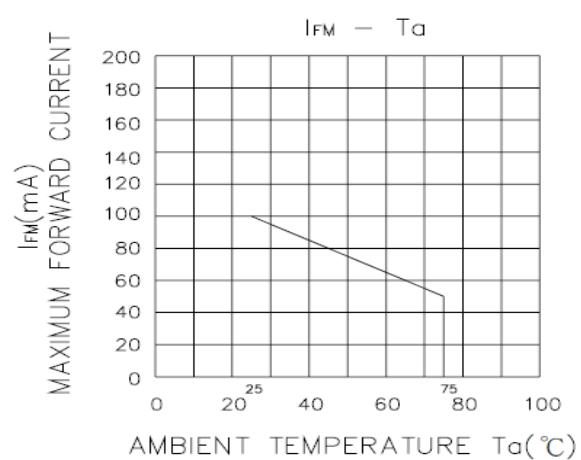
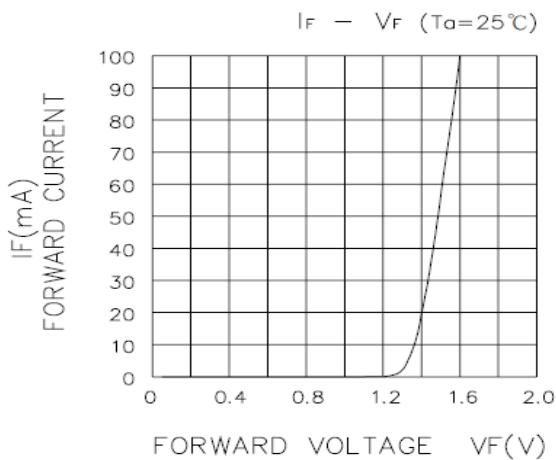
Radiant Intensity Measurement Tolerance = ± 15%

Forward Voltage Measurement Tolerance = ± 0.05V

Peak Emission Wavelength Tolerance = ± 1 nm

Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0
		Page 4/7

Characteristic Curves

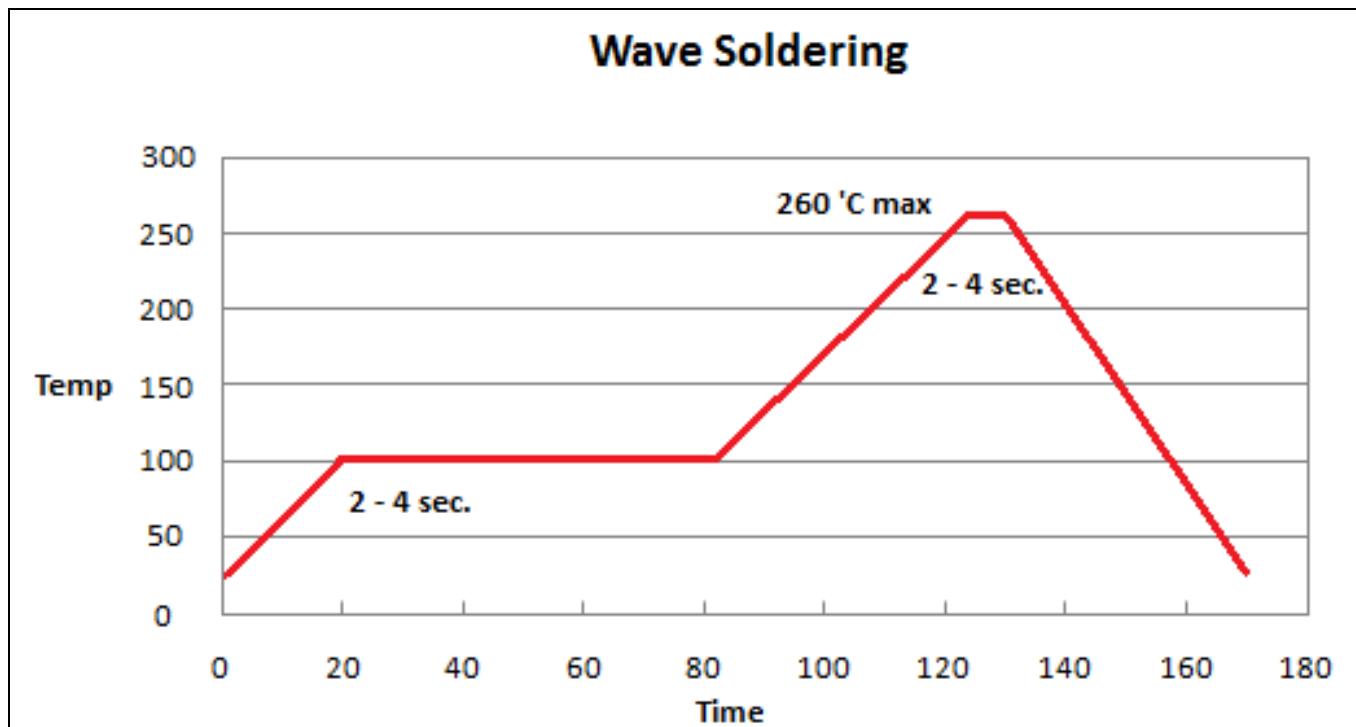


Official Product	HE1-240AC-XXXX	Data Sheet No.	
Customer Part No.	*****	HE1-240AC-XXXX	
Specifications are subject to change without notice. Data and drawings herein are copyrighted.		August 5, 2009	Version of 1.0
			Page 5/7

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: 5mm 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:



Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0
		Page 6/7

Revision History

Official Product	HE1-240AC-XXXX	Data Sheet No.
Customer Part No.	*****	HE1-240AC-XXXX
Specifications are subject to change without notice. Data and drawings herein are copyrighted.	August 5, 2009	Version of 1.0