



# VISIBLE LIGHT PRODUCTS

(Super White Light Emitting Diode)

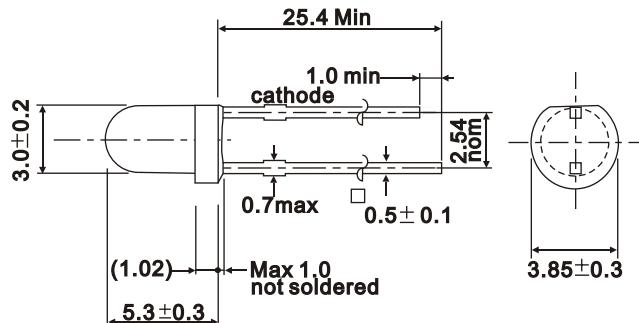
REV:D  
DATE:2006/4/26

DEVICE NO:HB3b-449AWF

## LENS COLOR:

<input type="checkbox"/>	colored diffusion	<input type="checkbox"/>	colored transparent	<input type="checkbox"/>	white diffusion	<input checked="" type="checkbox"/>	✓	water clear
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## PACKAGE DIMENSIONS:



### NOTE:

1. All dimensions are in millimeter.
2. Lead spacing is measured where the lead emerge from the package.
3. Protruded resin under flange is 1.5mm max.
4. Specifications are subject to change without notice.
5. Tolerance is 0.3mm unless otherwise noted.

## ABSOLUTE MAXIMUM RATINGS:

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Power Dissipation	Pd	120	mW
Continuous Forward Current	IF	25	mA
Peak Forward Current *1	IFM	100	mA
Reverse Voltage	VR	4	V
Electrostatic Discharge (HBM)	ESD	150	V
LED Junction Temperature	Tj	100	°C
Operating Temperature	Topr	-25 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Dip Soldering Temperature (3mm from case Bottom)		260 °C for 5 seconds	

## ELECTRIC-OPTICAL CHARACTERISTICS:

TA=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
View Angle of Half Power	2θ1/2	IF=20mA		29		Degree
Forward Voltage	VF	IF=20mA	2.7	3.5	4.1	V
Reverse Current	IR	VR=4V			60	uA
Luminous Intensity *2	IV	IF=20mA	6000	10000		mcd
Chromaticity Coordinates (Bin Sorting)	x	IF=20mA		0.30		
	y	IF=20mA		0.31		
Dominate Wave Length *3	λd(HUE)	IF=20mA		---		nm
Spectrum Width of Half Valve	Δλ	IF=20mA		---		nm

\*1.Duty Ratio=1/10,Pulse Width=0.1ms.

\*2.Tolerance:30% measuring equipment :EXELTRON 2001.

\*3.The dominate wavelength is derived from the CIE Chromaticity Diagram and represents the color of the device.

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.