

VISIBLE LIGHT PRODUCTS

(Super Blue Light Emitting Diode)

REV:B
DATE:2002/6/19

ESD Products! Class I

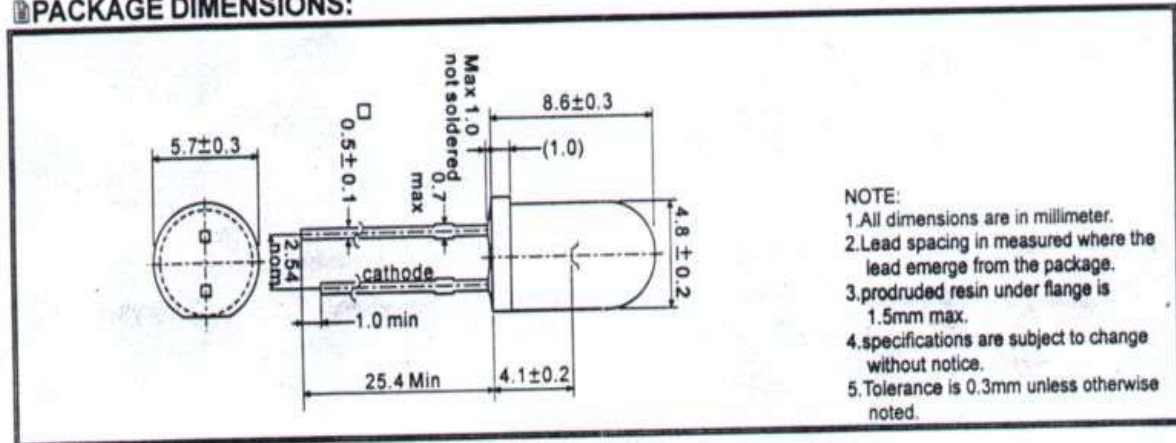
DEVICE NO:HB5d-438ABCA-D



LENS COLOR:

colored diffusion	colored transparent	white diffusion	✓	water clear
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PACKAGE DIMENSIONS:



- NOTE:
- All dimensions are in millimeter.
 - Lead spacing is measured where the lead emerge from the package.
 - produced resin under flange is 1.5mm max.
 - specifications are subject to change without notice.
 - Tolerance is 0.3mm unless otherwise noted.

ABSOLUTE MAXIMUM RATINGS:

Material:InGaN/GaN

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
LED Junction Temperature	TJ	100	°C
Operating Temperature	Topr	-25 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C

Lead Soldering Temperature (1.6mm 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		33		Degree
Forward Voltage	VF	IF=20mA	2.7	3.5	4.2	V
Reverse Current	IR	VR=4V			60	uA
Luminous Intensity *2	IV	IF=20mA	850	1800		mcd
Peak Emission Wavelength	λp	IF=20mA		468		nm
Dominate Wave Length *3	λd(HUE)	IF=20mA	465	471	475	nm
Spectrum Width of Half Valve	Δλ	IF=20mA		35		nm
Optic Rise Time	τ	IF=20mA		30		ns

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

*2.Tolerance:30% measuring equipment :1.EXELTRON 2001. 2.S370 made by U.D.T.

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

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