



# VISIBLE LIGHT PRODUCTS

(Super Green Light Emitting Diode)

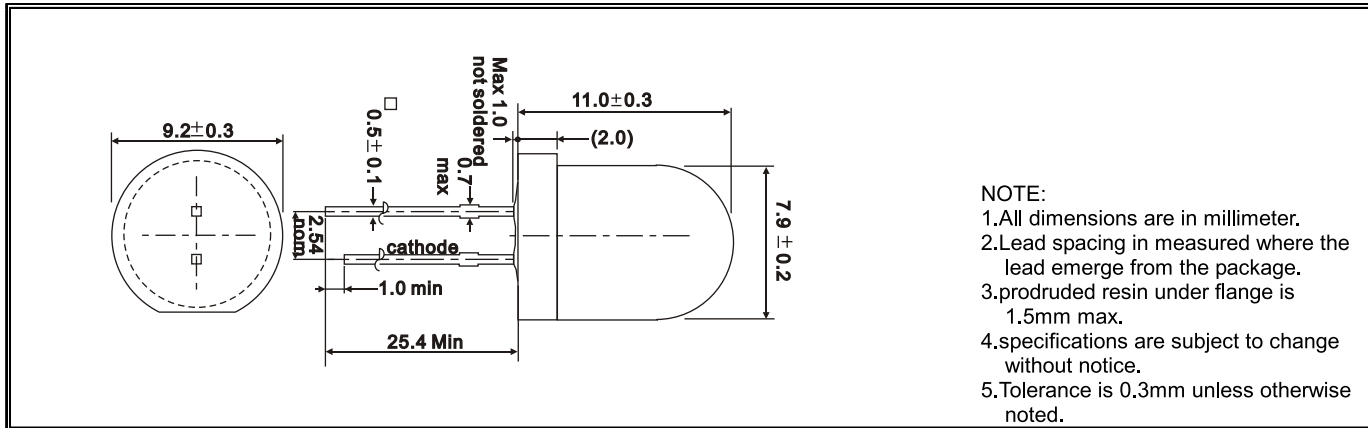
REV:B  
DATE:2006/4/14

DEVICE NO:HB8a-433EAGCA

LENS COLOR:

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



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	2000	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		30		Degree
Forward Voltage	VF	IF=20mA		3.5	4.0	V
Reverse Current	IR	VR=4V			60	uA
Luminous Intensity *2	IV	IF=20mA	2000	4500		mcd
Peak Emission Wavelength	λp	IF=20mA		523		nm
Dominate Wave Length *3	λd(HUE)	IF=20mA	520	525	540	nm
Spectrum Width of Half Valve	Δλ	IF=20mA		45		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.

**HUEY JANN ELECTRONICS INDUSTRY CO., LTD.**