

# VISIBLE LIGHT PRODUCTS

( Light Emitting Diode )

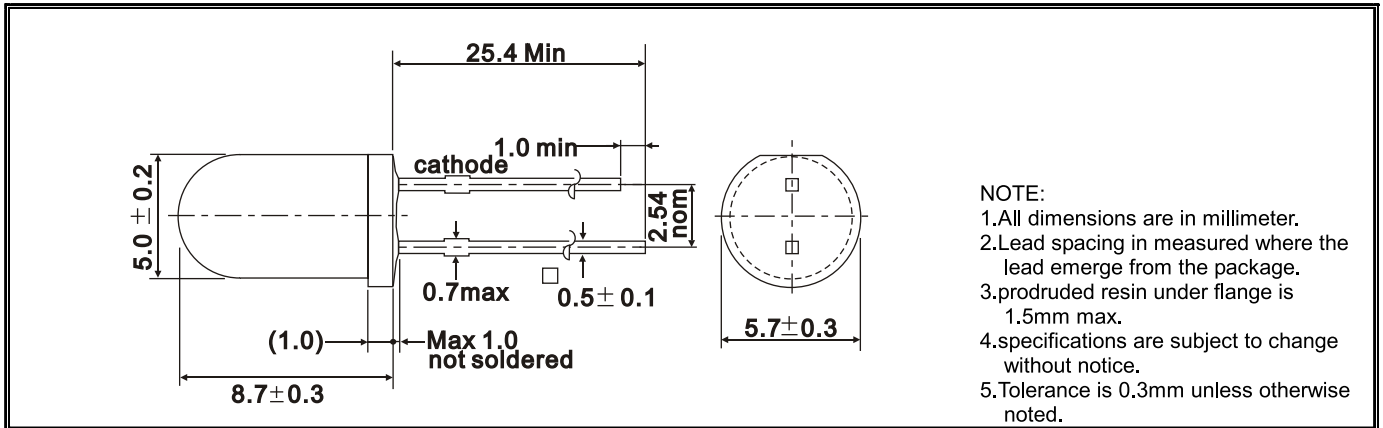
REV:B  
DATE:2005/4/26

DEVICE NO:HB5-132 ( Hi-Red )

LENS COLOR:

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



ABSOLUTE MAXIMUM RATINGS:

Material:GaP/GaP

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Power Dissipation	Pd	90	mW
Continuous Forward Voltage	IF	20	mA
Peak Forward Current *1	IFM	50	mA
Reverse Voltage	VR	5	V
LED Junction Temperature	Tj	100	°C
Operating Temperature	Topr	-25 ~ +85	°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		30		Degree
Forward Voltage	VF	IF=20mA		2.20	2.80	V
Reverse Current	IR	VR=5V			10	uA
Luminous Intensity *2	IV	IF=20mA	2.0	6.5		mcd
Peak Emission Wavelength	λp	IF=20mA		700		nm
Dominate Wave Length *3	λd(HUE)	IF=20mA		658		nm
Spectrum Width of Half Valve	Δλ	IF=20mA		100		nm
Terminal Capaciance	Ct	V=0V F=1MHz		25		pF
Response Frequency	Fc	-----		4		MHz

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

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

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

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.