

VISIBLE LIGHT PRODUCTS

(Light Emitting Diode)

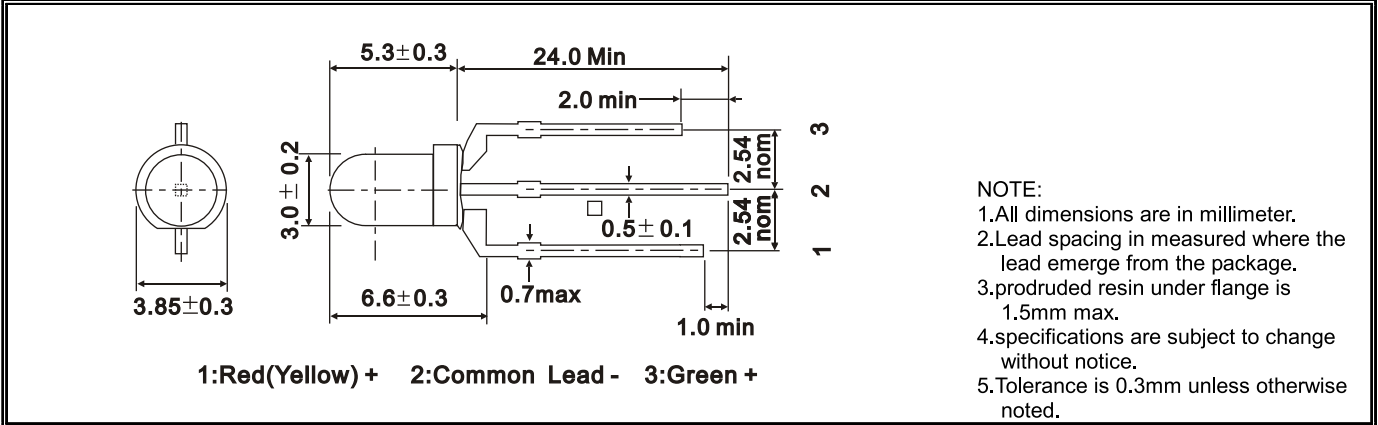
REV:B
DATE:2005/4/25

☞ DEVICE NO:HB3b-39OGC (Hi-Eff Red + Green)

☞ 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
		Hi-Eff Red	Yellow Green	
Power Dissipation	Pd	90	90	mW
Continuous Forward Voltage	IF	30	25	mA
Peak Forward Current *1	IFM	50	50	mA
Reverse Voltage	VR	5	5	V
LED Junction Temperature	Tj	100	100	°C
Operating Temperature	Topr	-25 ~ +80		°C
Storage Temperature	Tstg	-40 ~ +100		°C
Lead Soldering Temperature (1.6mm from case Bottom 240 °C for 3 seconds)				

☞ ELECTRIC-OPTICAL CHARACTERISTICS:

TA=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
View Angle of Half Power	2θ1/2	IF=20mA	Hi-Eff Red	40		Degree
			Yellow Green	40		
Forward Voltage	VF	IF=20mA	Hi-Eff Red	2.05	2.80	V
			Yellow Green	2.15	2.80	
Luminous Intensity *2	IV	IF=20mA	Hi-Eff Red	30	50	mcd
			Yellow Green	30	50	
Peak Emission Wavelength	λp	IF=20mA	Hi-Eff Red	625		nm
			Yellow Green	570		
Dominate Wave Length *3	λd(HUE)	IF=20mA	Hi-Eff Red	618		nm
			Yellow Green	567		

*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.