

VISIBLE LIGHT PRODUCTS

(Super Blue Light Emitting Diode)

REV:B
DATE:2005/4/25

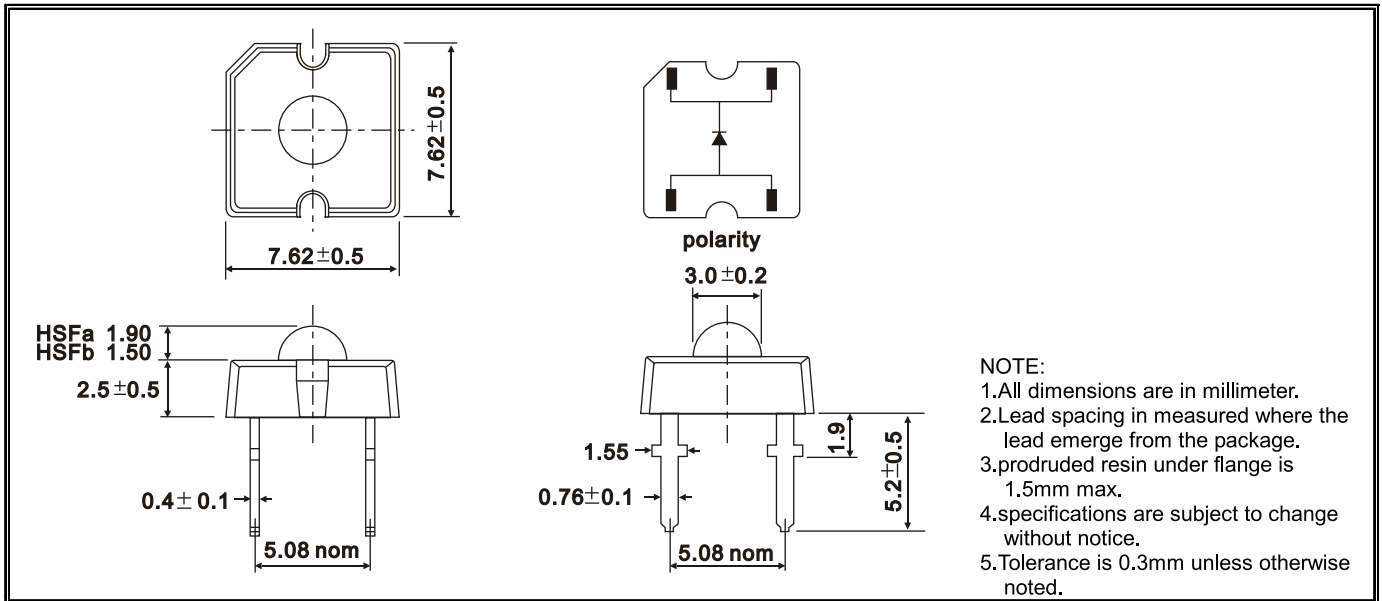
ESD Products!

DEVICE NO:HSFb-48ABC

LENS COLOR:

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



ABSOLUTE MAXIMUM RATINGS:

Material: InGaN/GaN

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Power Dissipation	Pd	120	mW
Continuous Forward Current	IF	30	mA
Peak Forward Current *1	IFM	100	mA
Reverse Voltage	VR	4	V
Operating Temperature	Topr	-20 ~ +80	°C
Storage Temperature	Tstg	-30 ~ +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		65		Degree
Forward Voltage	VF	IF=20mA		3.5	4.0	V
Reverse Current	IR	VR=5V			60	uA
Total Flux	IV	IF=20mA	250	450		mcd
Peak Emission Wavelength	λp	IF=20mA		475		nm
Dominant Wave Length *3	λd(HUE)	IF=20mA		470		nm
Spectrum Width of Half Valve	Δλ	IF=20mA		35		nm

*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 dominant wavelength, λd, is derived from the CIE Chromaticity Diagram and represents the color of the device.

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.