

VISIBLE LIGHT PRODUCTS

(High Power Light Emitting Diode)

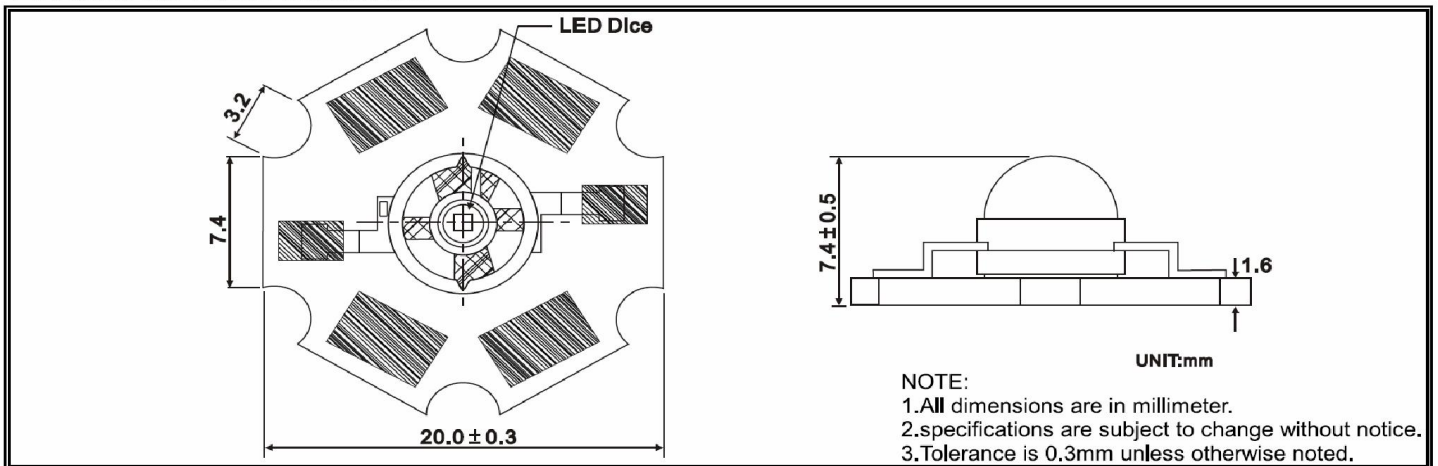
REV:B
DATE:2006/10/25

DEVICE NO:HPB8-48KB/PCB (Super Blue)

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	500	mW
Continuous Forward Current	IF	200	mA
Peak Forward Current *1	IFM	350	mA
Reverse Voltage	VR	5	V
LED Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40 ~ +105	°C
Storage Temperature	Tstg	-40 ~ +105	°C
Reflow Soldering Temperature (preheat 120-150°C 60-120sec, solder temp 260°C 5sec)			

ELECTRIC-OPTICAL CHARACTERISTICS:

TA=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
View Angle of Half Power	2θ1/2	IF=350mA		120		Degree
Forward Voltage	VF	IF=350mA		3.6	4.2	V
Reverse Current	IR	VR=5V			15	μA
Luminous Intensity *2	IV	IF=350mA		25		lm
Peak Emission Wavelength	λp	IF=350mA		470		nm
Dominate Wavelength *3	λd(HUE)	IF=350mA		470		nm
Spectrum Width of Half Valve	Δλ	IF=350mA		25		nm

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

*2.Tolerance:30% measuring equipment :EXELTRON 2001.

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

*4.Driving LED without heat sinking device is forbidden.

*5.It is strongly recommended that the temperature of lead be not higher than 55°C.

*6.Proper current derating must be observed to maintain junction temperature below the maximum.

*7.LEDs are not designed to be driven in reserve bias.