

VISIBLE LIGHT PRODUCTS

(High Power Light Emitting Diode)

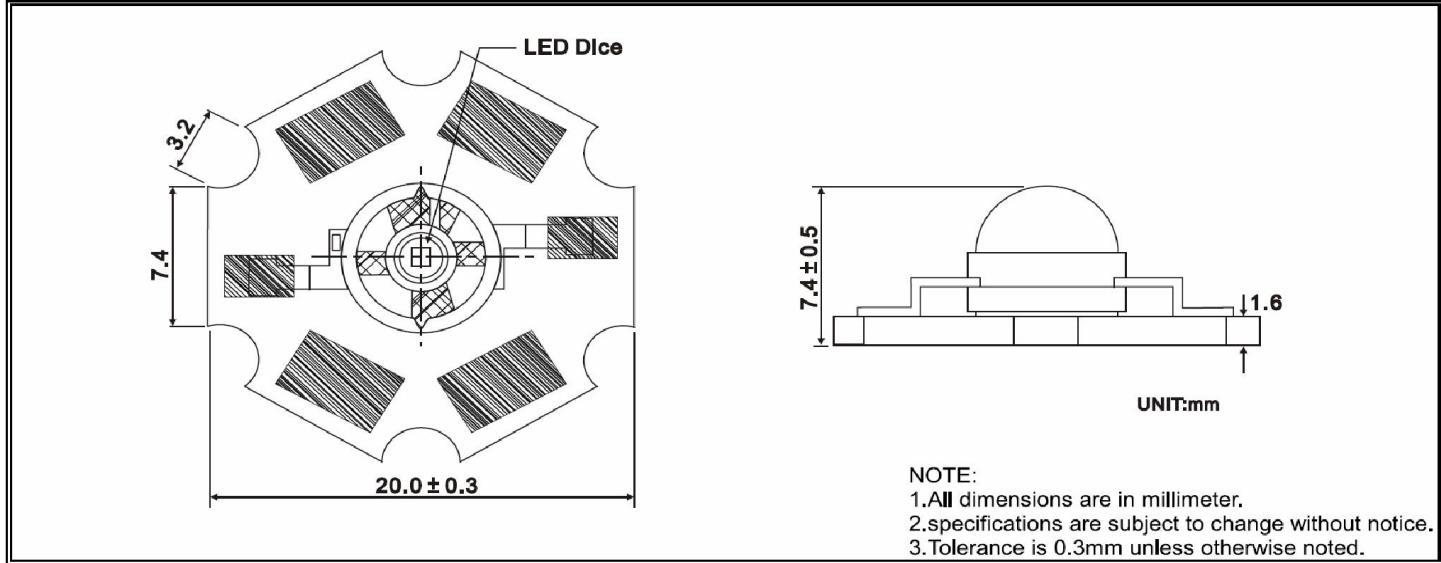
REV:C
DATE:2006/12/14

DEVICE NO:HPB8-45KR/PCB (Super Red)

LENS COLOR:

	colored diffusion		colored transparent		white diffusion	<input checked="" type="checkbox"/>	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	350	mA
Peak Forward Current *1	IFM	1000	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	201/2	IF=350mA		120		Degree
Forward Voltage	VF	IF=350mA		2.1	2.7	V
Reverse Current	IR	VR=5V			15	μA
Luminous Intensity *2	IV	IF=350mA		20		lm
Peak Emission Wavelength	λp	IF=350mA		630		nm
Dominant Wave Length *3	λd(HUE)	IF=350mA		625		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 , is derived from the CIE Chromaticity Diagram and represents the color of the device.