



VISIBLE LIGHT PRODUCTS

(Super White Light Emitting Diode)

REV:B
DATE:2005/4/20

ESD Products ! Class I

DEVICE NO:HB5-439AWF

LENS COLOR:

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

NOTE:

- All dimensions are in millimeter.
- Lead spacing is measured where the lead emerge from the package.
- prodruded resin under flange is 1.5mm max.
- specifications are subject to change without notice.
- Tolerance is 0.3mm unless otherwise noted.

ABSOLUTE MAXIMUM RATINGS:

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Power Dissipation	Pd	120	mW
Continuous Forward Current	IF	25	mA
Peak Forward Current *1	IFM	100	mA
Reverse Voltage	VR	4	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		22		Degree
Forward Voltage	VF	IF=20mA	2.7	3.5	4.2	V
Reverse Current	IR	VR=4V			60	uA
Luminous Intensity *2	IV	IF=20mA	16000	20000		mcd
Chromaticity Coordinates (Bin Sorting)	x	IF=20mA		0.30		
	y	IF=20mA		0.31		
Dominate Wave Length *3	λd(HUE)	IF=20mA		---		nm
Spectrum Width of Half Valve	Δλ	IF=20mA		---		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.

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.