

VISIBLE LIGHT PRODUCTS

(Super White Light Emitting Diode)

REV:C
DATE:2005/4/20

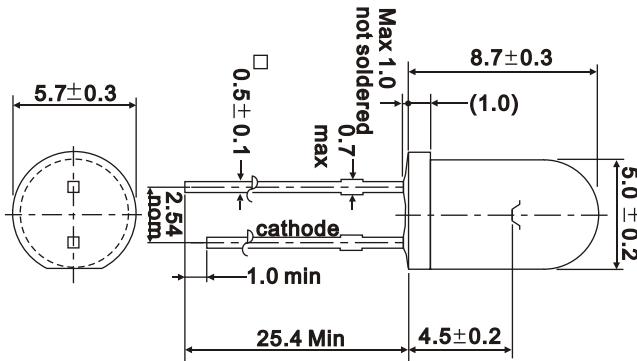
ESD Products ! Class I

DEVICE NO:HB5-439AWCA-C

LENS COLOR:

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



NOTE:
1. All dimensions are in millimeter.
2. Lead spacing measured where the lead emerge from the package.
3. Protruded resin under flange is 1.5mm max.
4. Specifications are subject to change without notice.
5. 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	20		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		43		Degree
Forward Voltage	VF	IF=20mA		3.6	4.2	V
Reverse Current	IR	VR=4V			60	uA
Luminous Intensity *2	IV	IF=20mA	2000	4200		mcd
Chromaticity Coordinates	x	IF=20mA		0.30		
	y	IF=20mA		0.32		
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.