

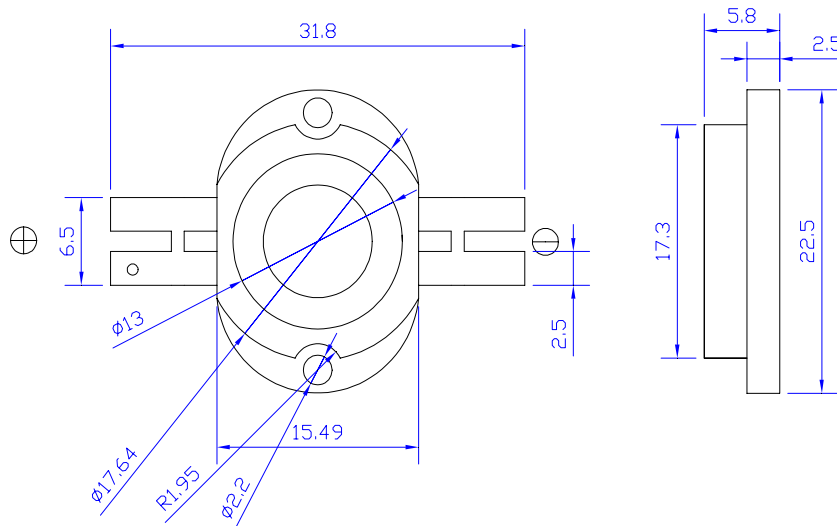


## Features

- Highest Flux
- High reliability and Very long operating life
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection
- RoHS Compliant

## Typical Applications :

- Lighting
- Portable
- Automobile
- Decorations



### NOTE:

- All dimensions are millimeter.
- Tolerance is  $\pm 0.1$ mm unless otherwise noted.
- It is strongly recommended that the temperature of lead be not higher than 60 .
- The appearance and specifications of the product may be modified for improvement without notice.



**Part No. 20VAL12HW3C**

**Absolute maximum ratings ( Ta = 25 )**

Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	IF	----	----	1800	mA
Peak Pulse Current	Ipeak	Duty=0.1mS , 1kHz	----	2800	mA
Power Dissipation	Pd	----	----	25	W
LED Junction Temperature	Tj	----	----	120	
Operating Temperature	Topr	----	-25	+80	
Storage Temperature	Tstr	----	-40	+100	
ESD Sensitivity	----	HBM	8000	----	V
Soldering Temperature	----	----	260 for 5 Seconds max		

**Electrical and optical characteristics ( Ta = 25 )**

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	VF	IF = 1400mA	12.0	12.8	15.0	V
Luminous Flux	v		----	980	----	lm
Viewing Angle	2 1/2		----	120	----	Deg.
Color Temperature	CCT		----	----	3600	K

**Luminous Flux Bins ( Ta = 25 )**

**Unit: lm**

Bin	D2	E2	F2
Min	800	900	1000
Max	900	1000	1200

**CCT Bins ( Ta = 25 )**

**Unit: K**

Bin	W0	W1	W2
Min	----	3000	3300
Max	3000	3300	3600

**Note**

- 1 . Flux is measured with an accuracy of ±15%
- 2 . CCT is measured with an accuracy of ± 200K
- 3 . Dominant Wavelength is measured with an accuracy of ± 1.5nm
- 4 . Forward Voltage is measured with an accuracy of ± 0.15V