SPECIFICATIONS FOR HUAXING LED HVLED E30V50 Datasheet

订购型号:<u>W**E30V50R80</u>

ITEM 项目	MATERIALS 物料	
Package materials 材质	EMC	
Encapsulating Resin 封装胶体	Silicone 硅胶	
Lens Color 胶体颜色	Yellow 黄色	
Dice 晶片	InGaN	

Customer	Approved	Checked	Prepared
客户确认	批准	审核	编制

产品提供商:

深圳市华芯光电有限公司

电话:0755-23500973 传真:0755-23501073

地址:深圳市宝安区沙井中心路同方中心大厦14楼

邮箱:jesion.he@ac-led.com.cn

网址:www.dobled.cn



Features

- ◆Size (mm) 3.0*3.0*0.53
- ♦ Viewing angle : 120°
- ♦ ROHS compliant lead-free soldering compatible

Applications

- Bulbs and fluorescent lamps
- OA equipment
- Portable lighting
- Decorative lighting
- Backlighting of full color LCD

Package Outline







Note: 1. UNIT: MM

2. The tolerances unless mentioned is ± 0.2 mm.



Absolute maximum ratings at Ta=25℃

Parameter	Symbol	Value	Unit
Power dissipation	Pd	1500	mW
Forward DC current	lf	30	mA
Reverse DC voltage	Vr	55	V
Operating temperature range	Тор	-40 ~+ 100	°C
Storage temperature range	Tstg	-40~+ 100	°C
Peak pulsing current	lfp	60	mA

Electro-optical characteristics at Ta=25℃

Parameter	Test	Symbol	Value			Unit
Farameter	Condition	dition Symbol		Тур.	Max.	Unit
Forward voltage	lf=30mA	Vf	48		50	v
Forward Voltage			50		52	v
Viewing angle at 50% Iv	lf=30mA	201/2		120		Deg
Reverse current	Vr=55V	lr			10	μA
Color Render Index	lf=30mA	CRI	80			
Junction Temperature	lf=30mA	Tj		125		°C

Electro-optical characteristics at Ta=25°C

	Color Rendering	Luminous Flux(IF=30MA)			
Color Temperature	Min.	Min.	Тур.	Max.	Unit
6500K	80	160		180	lm
5700K	80	160		180	lm
6100K	80	160		180	lm
5000K	80	160		180	lm
4000K	80	160		180	lm
3000K	80	140		160	lm
2700K	80	140		160	Im

NOTE: (Tolerance: $\Phi \pm 10\%$, X/Y ± 0.01 , Vf $\pm 0.1V$)

IFP Conditions : Pulse Width \leq 10msec. and Duty \leq 1/10.



Bin Information



0.26 0.28 0.30 0.32 0.34 0.36 0.38 0.40 0.42 0.44 0.46 0.48 0.50 0.52

Typical optical characteristics curves











Packaging Specifications



NOTES

1.Quantity : Max 5000pcs/Reel

2.Cumulative Tolerance : Cumulative Tolerance/10 pitches to be \pm 0.2mm

3.Adhesion Strength of Cover Tape Adhesion strength to be 0.1-0.7N when the cover tape is turned off from the carrier tape at the angle of 10° to the carrier tape.

4.Package : P/N, Manufacturing data Code No. and Quantity to be indicated on a damp proof Package.



Reflow Soldering Characteristics



Reflow soldering

Temperature Min (Tsmin)	150°C
Temperature Max (Tsmax)	200°C
Time(ts)from (Tsmin to Tsmax)	60-120 seconds.
Ramp-up rate (TL to Tp)	3°C/seconds max.
Liquidous temperature(TL)	217°C
Time(tL) maintained above TL	60-150 seconds
Peak package body temperature(Tp)	260°C max
Time (tp) within 5° C of the specified classification	30 seconds max
temperature(Tc).	
Ramp-down rate (Tp to TL)	6°C/second max
Time 25° C to peak temperature	8 min max

Recommended Solder Pad



Recommended solder pad



Recommended stencil opening



Notes for reflow soldering

1. No more than twice for reflow soldering.

2. To ensure the quality of our LEDs, we encapsulate them with silica gels. So please do not put pressure on the LEDs.

3. Please choose the right nozzle(try to learn from the plastic products parts) to avoid the damage to products due to the pressure.

4. Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be ntacted with ground.

Handwork soldering :

1. During the soldering, the electronic soldering iron must be kept under the temperature of 300° C and the soldering time must not be beyond 3 seconds. No touch between the electronic soldering iron and colloid.

2. Handwork soldering is only allowed once. We won't take responsibility for more than that.

3. Avoid using sharp objects to compress products Colloidal Part directly.

4. Please put on the antistatic hand loop during the use. The worktable should be with antistatic finish. The equipments must be contacted with ground.

Storage conditions

Before opening the package

1. The LEDs can be preserved for 1 year in condition of temperature no more than 30° C and humidity no more than 60° RH.Recommended for moisture-proof foil bag with desiccant packaging methods and stored in the constant temperature and humidity box. Can not reach the requirements under the environment of the guarantee as far as possible in six months after use.

After opening the package :

1. The SMD LEDs should be run out with 12hours in condition of temperature no more than 30° C and humidity no more than 60° RH. The rest products should be pressurized in vacuum condition with desiccants. Stored for more than 7 days, next time also must be dehumidification, the dehumidification conditions is 75° C with 12hours.

2. The sealed storage products stock in the drying cabinet more for than one month, then must be dehumidified before used, and the dehumidified conditions is 75° C 24 hours.

3. If the product does not vacuum sealed packaging, and in the air for more than 40hours, this product must be removed from the tape of reel and put into the steel plate to dehumidify with 150° C 2 hours, then could ensure the quality of the product after the soldering operation.