

RoHS

Specification

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Product P N			
	L	V	LVR u
Sending ate			

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Client approval		Hongli approval			
pproval	udit	pproval	udit	onfirmation	
Qualified	isqualified	T 2016.	05. 16		

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opyright SPEC NO: B-16-C-0140

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DATE: May/2016

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ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Under evelopment	
Mass production	•

Product naming rules

<u>L _ _ _ V _ _ – _ _LVR _ u _ _</u>

0

Features

imension mmx mmx mm

Long operating life

igh radiation flux

nstant light less than ns 100ns

Low voltage operated

igh heat dissipation efficiency

Superior S protection

Ro S compliant Ro S

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Application range



UV **UV** Curing



UV **UV** Printing



UV **UV** Exposure



Nail Polish Curing



Security, Banknote

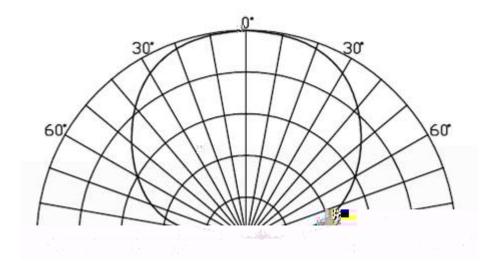


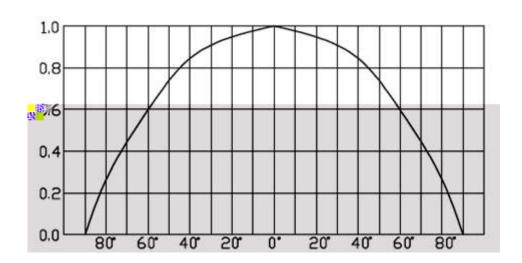
Mosquito Killer

DATE: May/2016



Radiation Pattern





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Typical Optical/Electrical Characteristics @Ta=25š7 HmdY

Symbol	ltem	Min.	Тур	Max.	Units	
е	Radiation lux辐射功率				mW	m
V	orward Voltage 正向电压				V	m
Р	Peak Wavelength				nm	m
	Power ngle				deg	m
R	Reverse urrent				u	VR V
L	Life Time				our	m
L	Life Time				our	m

Absolute Maximum Ratings 绝对最大额定值@H51&)š7

Item名称	Symbol 符号	Absolute Maximum Rating 绝对最大额定值	
Power dissipation	Pd		W
Peak orward urrent	р		m
Reverse Voltage	V_{R}		V
Operating Temperature	Topr	20°C To +60°C	
Storage Temperature	Tstg	0C To +40°C	

Notes注:

Radiant flux measurement tolerance ±

Forward voltage measurement tolerance ±

Peak wavelength measurement tolerance ± nm

Duty Cycle ms Pulse Width 占空比, ms脉冲宽度;

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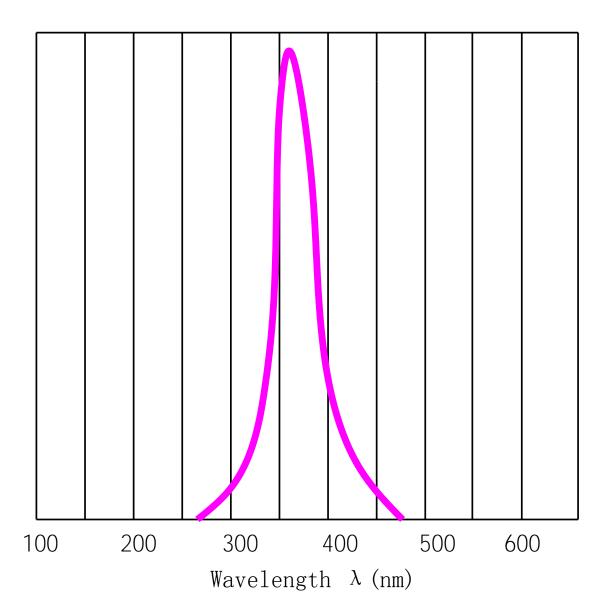
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Typical Optical/Electrical Characteristics Curves (T_a =25 $^{\circ}$ C Unless Otherwise Noted)

典型光学/电性特征曲线(T₄=25℃ 除非另有注释)

(1) Wavelength Characteristics

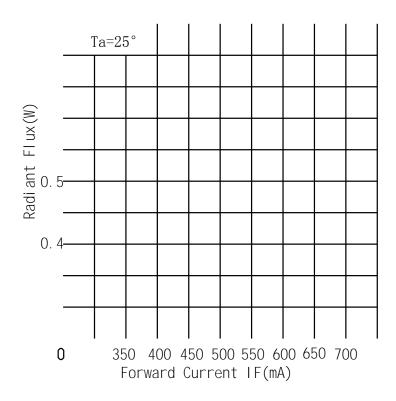


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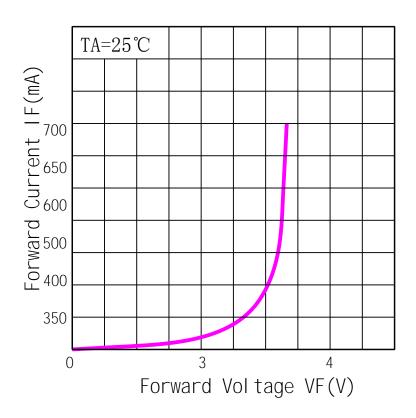
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(2) Relative Radiation Flux-IF



(3) Relative IF-VF



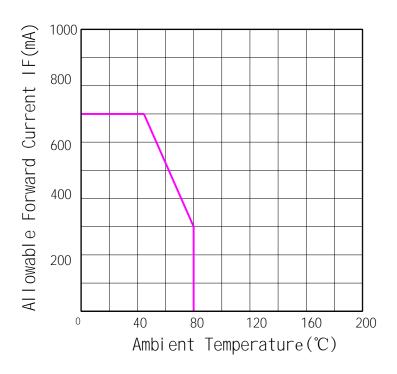
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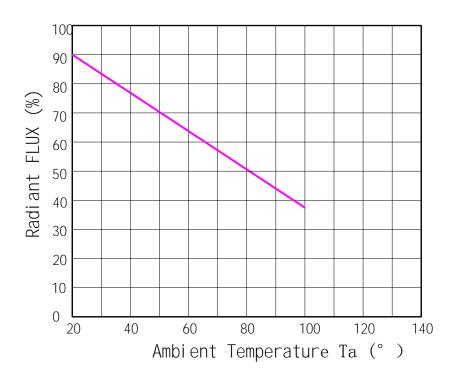
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(4) Allowable Forward Current-Ta



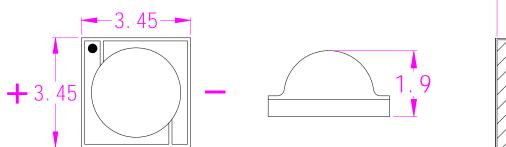
(5) Radiation Flux-Ta

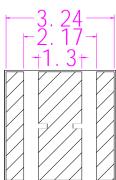


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Package Dimensions



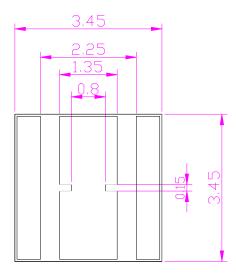


Notes

Il dimension units are millimeters

2. All dimension tolerance is ±0.1mm unless otherwise noted.

Welded plate Dimensions



Notes

When the circuit configuration is not affected suggested the increase in the middle of the copper area or the connection between the middle and the pad and the negative electrode can improve the cooling performance of the product tis recommended to use mmthickness of steel mask

mm

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Label

TYP: XXXXXXXXX

QTY XXXXX

V orward voltage rank

e Radiation lux rank

XXXX

P Peak Wavelength

T XXXX

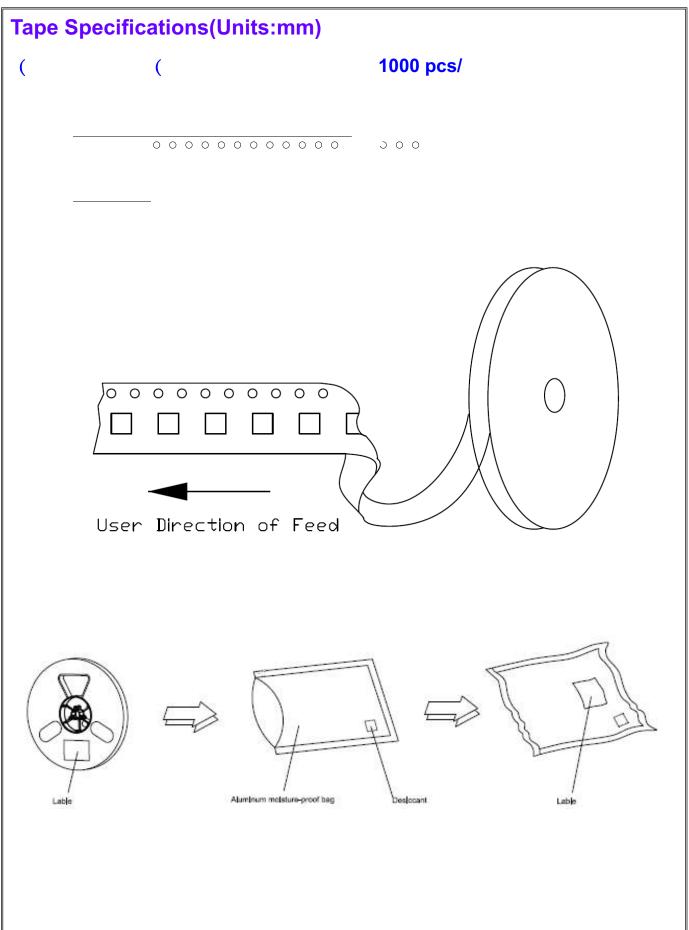
LOT NO Lot Number



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Reflow soldering instructions

Profile Feature Lead-Based solder Lead-Free Solder

verage Ramp Rate Ts_{max} to Tp

 $^{\circ}$ C

Note:

max

recommend to use a convection type reflow machine with zones

145°-165°-185°-210°-220°-240°-260°-240

90cm/min

recommend to use Lead ree Paste with a melting point between 210°C-220°C

210°C-220°C

the reflow soldering time should not be more than s all temperature means the temperature meas ured on the surface of the package body

s

When using hot plate the temperature is no more than $^{\circ}\mathbb{C}$ the time is not more than seconds

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Use the matters needing attention 使用注意事项

storage)

5-30 ℃

60%

LED 24H

60 ℃±5 ℃ 12H

To avoid moisture, we recommend storage conditions for the unopened LED +5 \sim +30 °C, relative humidity <60%. LED should be used within 168 Hrs. of opening the package. Please make sure to dehumidify and vacuum pack the remaining/ unused LED. Dehumidifying condition: +120 °C \pm 5 °C, 04 Hrs. Effective age for the sealed led is one year.

the assembly notes)

 $260\, {\rm C}.$

1000g

Soldering Conditions This product must be used reflow soldering practices, the maximum temperature of reflow should not exceed 220 °C. Please make sure when soldering, there is no external force on the soldering surface (such as pressure, friction or sharp metal nails, etc.), to avoid gold wire deformation or damage and other abnormalities.

If beyond recommended conditions, we cannot guarantee the LED stability, please do the risk assessment first.

anti-Static Measures)

Please take adequate measures to prevent electrostatic generation, such as wearing electrostatic ring or anti-static fingerstall etc; any relative products like plant equipment, machinery, carrier and transportation units shall be connected to discharging unit/ ground. After assembly, please make sure to discharge Static Electricity with proper ESD equipment.

temperature Control)

500V

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During assembly, please ensure that a good quality thermal paste is applied and distributed evenly over the surface. While using thermal pad (Heat Sink), make sure LED is firmly tightened and there is no gap between surfaces. The need to ensure the cooling medium dielectric withstand test at least through 500V.

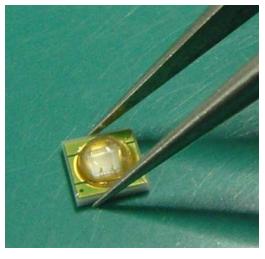
drive control)

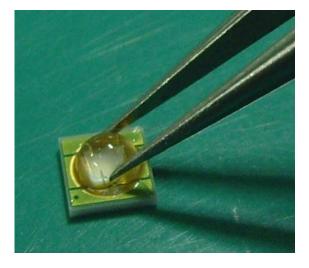
rive this product at constant current. Output current range specifications should be according to the operational and other conditions as mentioned in data sheet—efore using a constant voltage source or altered specifications other than recommended please consider risk factors other)

(C12,H2S NH3 SOx NOx

Product is not suitable to use in following conditions;

- —Direct or indirect wet / damp conditions, such as rain, etc;
- —-in contact with sea water and erosive materials;
- —Exposed to corrosive gases (e.g., C12, H2S, NH3, SOx, NOx, etc.);
- —-Exposed to dust, liquids or oils;





OK NG

Notes注

Il high power emitter L products mounted on aluminum metal core printed circuit board can be lighted directly but we do not recommend lighting the high power products for more than seconds without a appropriate heat dissipation equipment

L

L

Reflow soldering should not be done more than two times The reflow temperature we recommend is

°C,When the temperature exceeds °C the product failure of L can be caused

°C L

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