

RoHS					
	Spe	eci	ficat	ion	
	Client Name				
	Client P/N				
S	Product P/N Sending Date	HL-	C3535F7V365	-D1-LVR9(Au	120)
CLIE	ent approval		Нс	ongli approva	1
Approval	Audit		Approval	Audit	Confirmation
Qualified	Disqualifie	ed	DATE: 2016.	05. 16	
Adr NO.1,Xian	ke Yi Road,Huadon	g Town,, H		Guangzhou, Ch	i na
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Catal og

- 1. Product naming rules
- 2. Features
- 3. Application range
- 4. Radiation Pattern

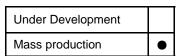
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- **5.Typical Optical/Electrical Characteristics Curves**
- 6.Absolute Maximum Ratings
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- **10.Tape Specifications**
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ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Product naming rules

<u>HL-C</u> 1 2	<u>3535</u> 3	<u>F7</u> <u>V</u> 4 5	<u>365</u> 6	– <u>D</u> 7	<u>1</u> –	<u>LVR9</u> 9		
	3	4 5	0	1	0	9	10	11
1								
2								
3								
4								
5								
6								
7								
8								
9								
10:								
11		120°						

Features

Dimension3.45mm×3.45mm×1.9mmLong operating lifeHigh radiation fluxInstant light (less than 100ns)100nsLow voltage DC operatedHigh heat dissipation efficiencySuperior ESD protectionRoHS compliant RoHS

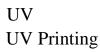


Application range



UV UV Curing









UV UV Exposure



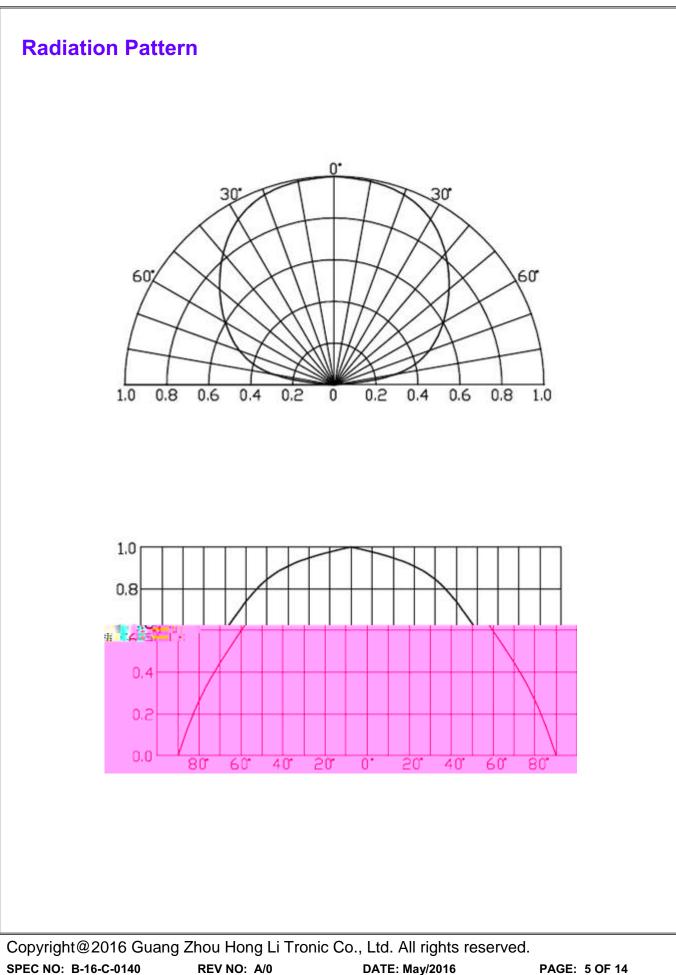
Security, Banknote

Nail Polish Curing



Mosquito Killer







Typical Optical/Electrical Characteristics @Ta=25š7[·]HmdY

Symbol	ltem	Min.	Тур.	Max.	Units	Test Conditions
е	Radiation Flux辐射功率	350	400		mW	IF=500mA
VF	Forward Voltage 正向电压	3.0	_	4.0	V	IF=500mA
Ρ	Peak Wavelength	360	_	370	nm	IF=500mA
2 1/2	50% Power Angle	_	120	_	deg	IF=500mA
IR	Reverse Current	_	_	50	uA	VR = 5V
L50	Life Time	_	3000	_	Hour	IF=500mA
L50	Life Time	_	1500	_	Hour	IF=700mA

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

ltem名称	Symbol 符号	Absolute Maximum Rating 绝对最大额定值	Units	
Power dissipation	Pd	2.8	W	
Peak Forward Current	I _{FP}	700	mA	
Reverse Voltage	V _R	5	V	
Operating Temperature	Topr	-20°C To +60°C		
Storage Temperature	Tstg	0C To +40°C		

Notes注:

1.Radiant flux measurement tolerance:±10%;

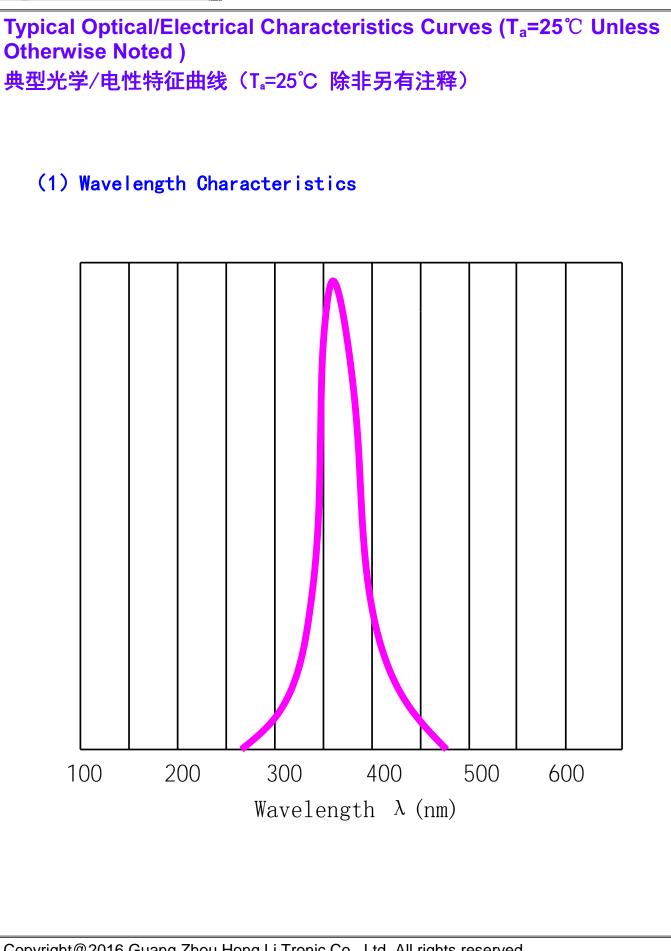
2.Forward voltage measurement tolerance:±3%;

3.Peak wavelength measurement tolerance:±3nm;

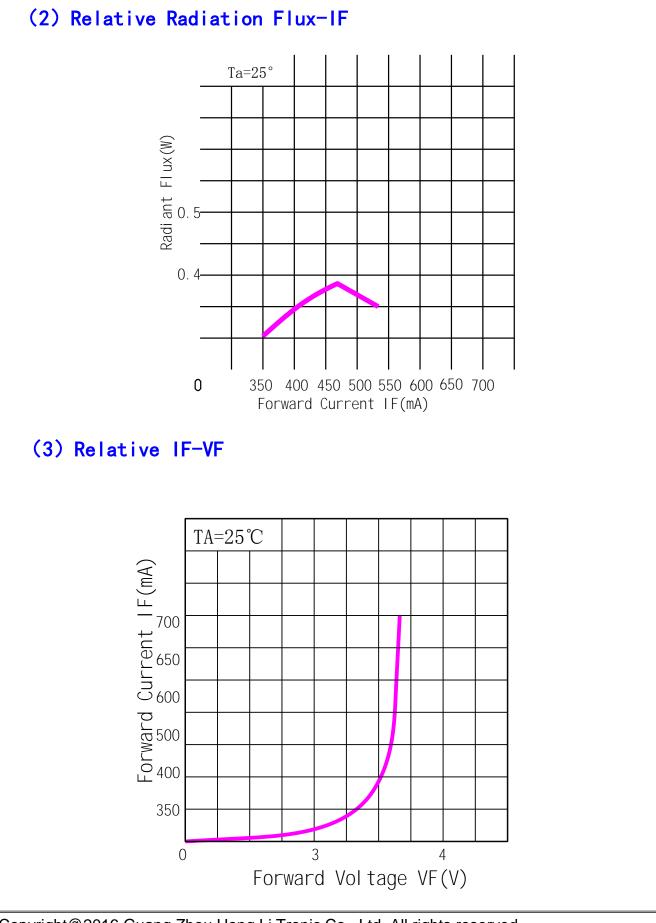
4.1/10 Duty Cycle,0.1ms Pulse Width.1/10占空比, 0.1ms脉冲宽度;

5.The temperature of Aluminum PCB do not exceed 55℃.基板温度不超过55℃。

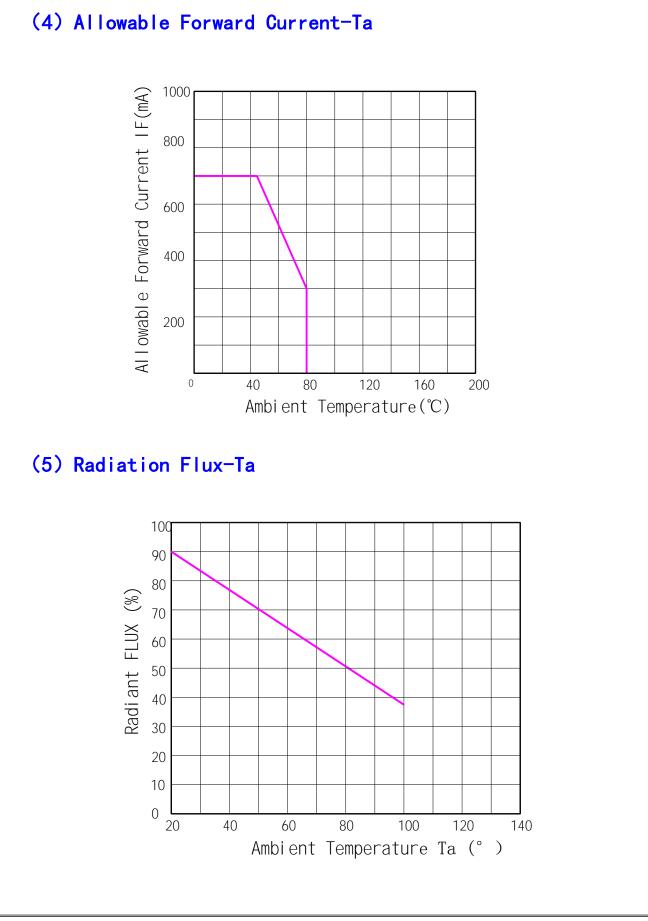






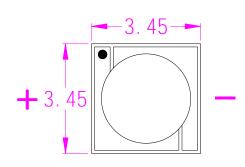


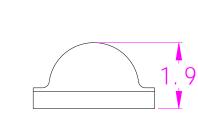


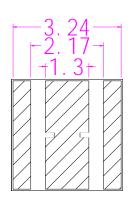




Package Dimensions





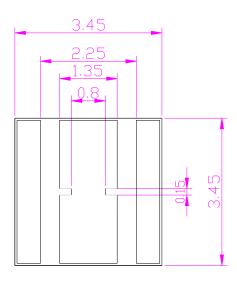


Notes

1. All dimension units are millimeters.

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

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 It is recommended to use 1 mmthickness of steel mask.

1mm





Label

TYPE: XXXXXXXXX

QTY: XXXXX

VF: Forward voltage rank

e: Radiation Flux rank

IF: XXXX

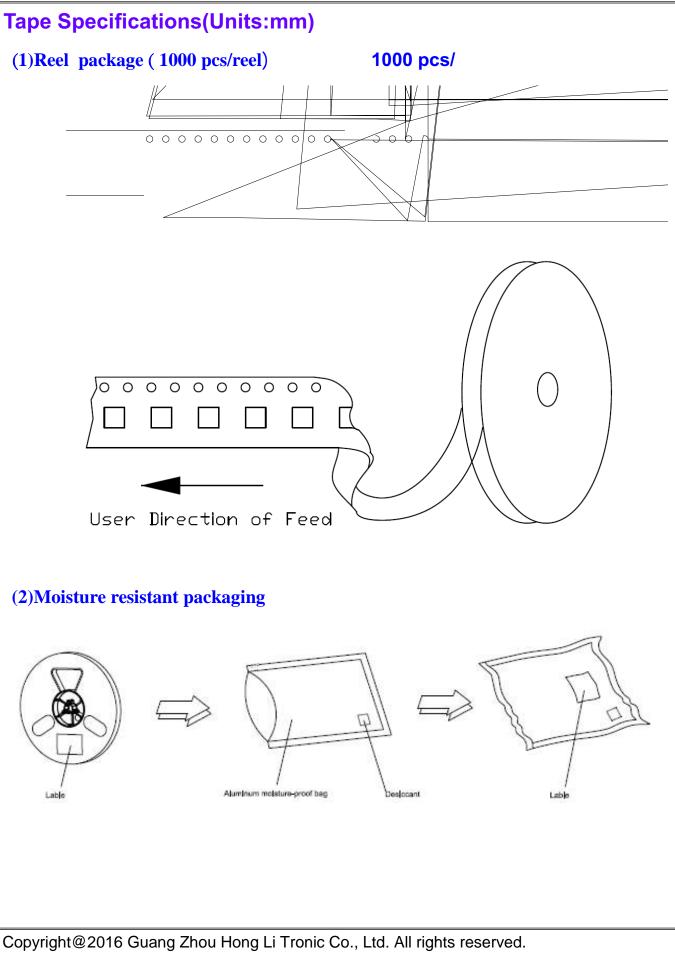
P: Peak Wavelength

DATE: XXXX

LOT.NO:Lot Number

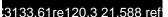
1	HONGLITRONIC 鸿利光电		RoHS	
TYPE: VF: I F: DATE		QTY: e: P: LOT. NO:		







Reflow soldering instructions					
Profile Feature	Lead-Based solder	Lead-Free Solder			
Average Ramp-Rate (Ts _{max} to Tp)	9)©iile4te				
Note:					
1.recommend to use a convection type reflow machi 145°-165°-185°	re with 8 zones. °-210°-220°-240°-260°-240°	90cm/min			
2.recommend to use Lead-Free Paste with a meltine 210°C - 220°C	g point between 210℃-220℃.				
3.the reflow soldering time should not be more than ured on the surface of the package body. 360s	360s.all temperature means t	he temperature meas-			
4.When using hot plate, the temperature is no more 260	than 260 $^\circ \!\!\!\! \mathbb{C}$, the time is not me 5	ore than 5 seconds.			
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SPEC NO: B-16-C-0140 REV NO: A/0	DATE: May/2016	PAGE: 13 OF 14			





			LESS ELECTRICIT	Y, MORE GREEN WORLD
Use t	he matters needi	ng attention(使月	用注意事项)
(storage)			
		5-30	$\mathfrak{I}(\mathcal{T})$	60%
LED	24H			
		60 °C ±5 °C	12H	
midity <6 midify and	noisture, we recommend sto 0%. LED should be used wi I vacuum pack the remainin tive age for the sealed led is (the assembly notes	thin 168 Hrs. of opening the g/ unused LED. Dehumidies one year.	he package. Please	e make sure to dehu-
		1	260 °C	2.
1000	3			
should not face (such other abno	recommended conditions, w	ure when soldering, there i p metal nails, etc.), to avoi	is no external force id gold wire deform	e on the soldering sur- mation or damage and
anti-static tion units	e adequate measures to prev fingerstall etc; any relative shall be connected to discha etricity with proper ESD equ (temperature Control)	products like plant equipm rging unit/ ground. After a	nent, machinery, ca	arrier and transporta-

500V



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)

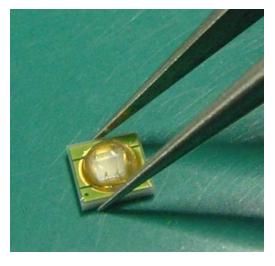
Drive this product at constant current. Output current range specifications should be according to the operational and other conditions, as mentioned in data sheet. Before using a constant voltage source or altered specifications, other than recommended, please consider risk factors.

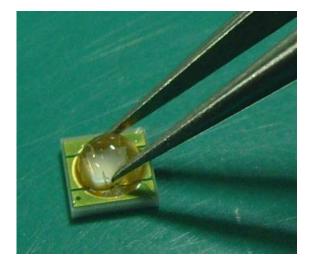
(other)

(Cl2,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., Cl2, H2S, NH3, SOx, NOx, etc.);
- —-Exposed to dust, liquids or oils;





OK

NG

Notes注:

1.* All high power emitter LED 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 5 seconds without a appropriate heat dissipation equipment. LED

LED

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

260°C,When the temperature exceeds 260 $^\circ$ C, the product failure of LED can be caused

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260 260°C LED