



Date Sheet

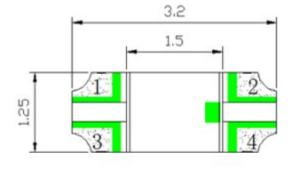
Customer:	
Part No:	CL-SP150UHRUHY-R-02
Sample No:	
Description:	
Item No:	

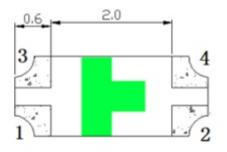
Customer						
Check Inspection Approval Date						

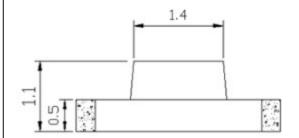


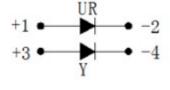
1. Dimensions

Units: mm









All dimensions area in mm tolerance is ± 0.05 mm unless otherwise noted tes:





2. Electrical/Optical characteristics

(1) Absolute Maximum Ratings (TA=25°C)

Item	Symbol	Absolute Maximum Rating		Unit
		Red	Yellow	
Forward Current	IF	25	25	mA
Pulse Forward Current	IFP	60 60		mA
Reverse Voltage	VR	5		V
Power Dissipation	PD	55	55	mW
Operating Temperature	Topr	−0°C To +85°C		° C
Storage Temperature	Topr	-40° C To +85° C		° C
Soldering Temperature	Tsld	Reflow Soldering: 235°C Hand Soldering: 350°C		for 10sec. for 3sec

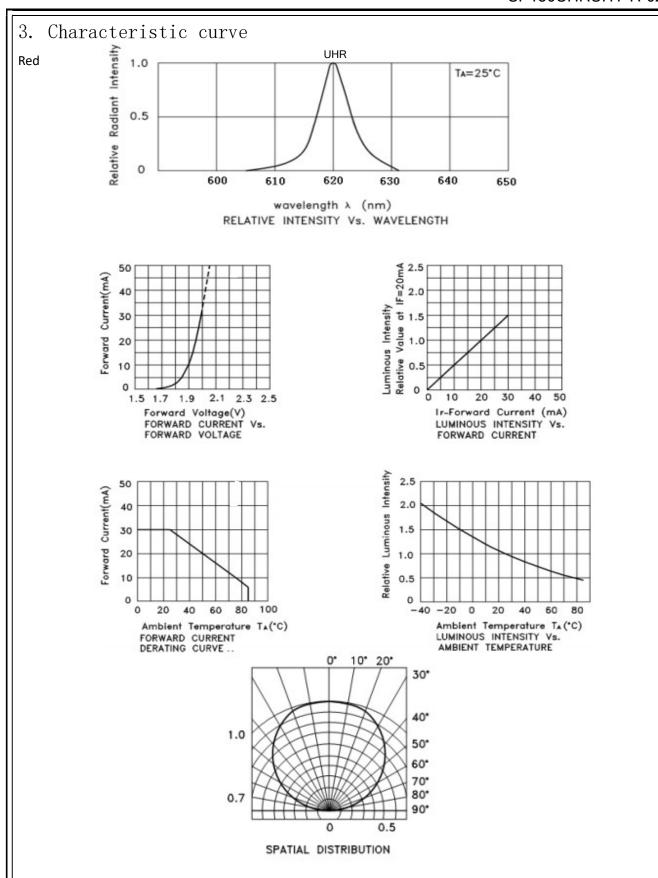
1/10 period, 0.1 msec pulse widthIFP Conditions : 1/10 Duty Cycle, 0.1 msec Pulse Width

(2) 本样品光电参数Initial Electrical/Optical Characteristics (TA=25°C)

Symbol	Item	Unita	Device	Min	Trees	Morr	Test Conditions
		Units	Device	Min	Тур.	Max.	Conditions
VF	Forward Voltage	V	Red	1.8	_	2. 2	- IF=20mA
			Yellow	1.8	_	2. 2	
IR	Reverse Current	uA	1	-	_	10	VR=5V
Δ λ 1/2	Viewing Angle	o	-	_	120	_	IF=20mA
Iv	LuminousIntensity	Mcd	Red	70	_	150	IF=20mA
		MCd	Yellow	70	_	150	Tr-ZUIIA
λD	DominateWavelength	Nm	Red	618	_	625	IE-20m4
			Yellow	586		592	IF=20mA

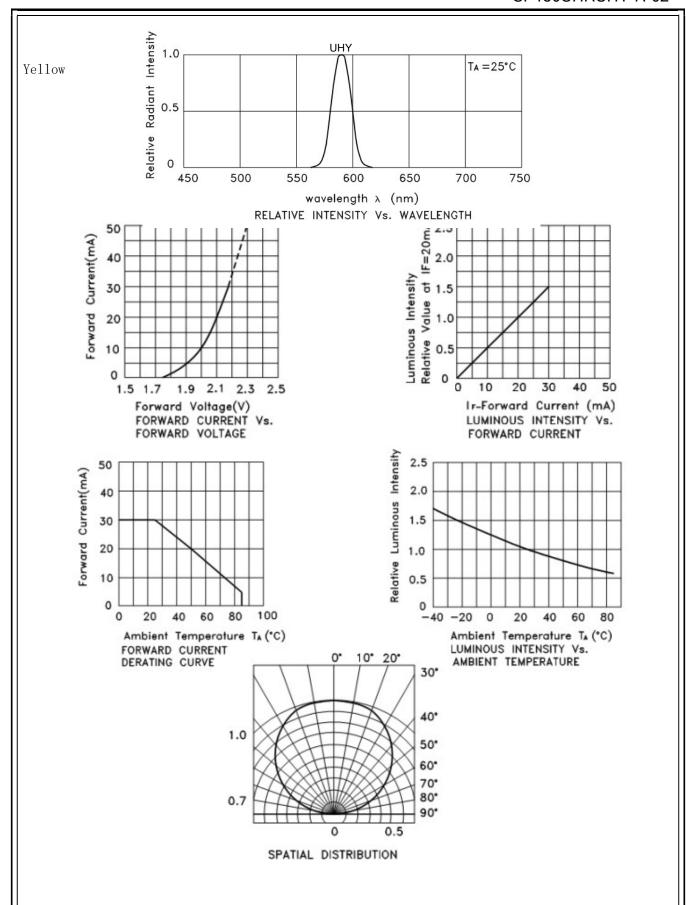
















4. RELIABILITY

(1) Test Items and Results

(1)	est Items and f	(CSul ts				
NC	Test Item	Guideline	Test Condition	Duration	Number of samples	Defect quantity/sampling
1	Temperature cycle	JEITA ED-4701	$-40^{\circ}\mathrm{C}\!\sim\!25^{\circ}\mathrm{C}\!\sim$ $100^{\circ}\mathrm{C}\!\sim$ $25^{\circ}\mathrm{C}$ 30 minutes 5 minutes 30 minutes 5 minutes	Loop 100 rounds	50	0/50
2	Thermal shock	MIL-STD-202G	-40°C ~100°C 15 minutes 15 minutes	Loop 200 rounds	50	0/50
3	High temperature storage	JEITA ED-4701 200 201	Ta=100℃	1000 hous	50	0/50
4	Low temperature storage	JEITA ED-4701 200 201	Ta=-40°C	1000 hous	50	0/50
5	Normal temperature test		Ta=25±5℃	1000 hous	50	0/50
6	High temperature and humidity test		Ta=60°C RH=85%	1000 hous	50	0/50
7	Solderability (reflow soldering)	JEITA ED-4701 300 303	Tsol=235℃ ±5℃,5 sec Use flux	Weld once, 5 seconds	10	0/10
8	Solder resistance (reflow soldering)	JEITA ED-4701 300 301	Tsol=250 $^{\circ}$,10 seconds Pretreatment: 35 $^{\circ}$ C 95%RH 96 hours	twice, 10 seconds each time	10	0/10

The above test items such as differences or special customer specific requirements according to the actual situation in accordance with the requirements of customers to try the requirements with the customer, the customer is not required by our test standard test. Different products using different current test





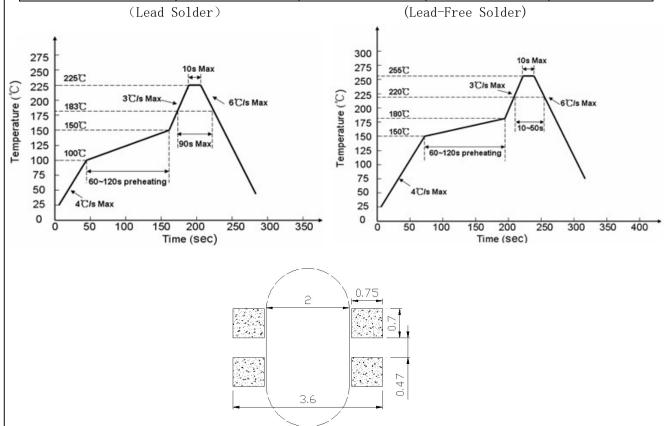
5. Cautions

(1) Soldering Conditions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process.

(Recommended soldering conditions)

	Hand welding				
	Lead		Temperature	350° C Max.	
	Solder	Solder			
Pre-heat	140 ~ 160° C		Soldering time	3 sec. Max.	
Pre-heat time	120 sec. Max.	120 sec. Max.		(onetime only)	
Peak temperature	230° C Max.	260° C Max.			
Soldering time 10 sec. Max.		10 sec. Max.			
Condition	tion Refer to the				
	picture below	below			









(2) Static Electricity

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

All devices, equipment and machinery must be properly grounded.

Damaged LEDs will show some unusual characteristics such as the forward voltage becomes lower, or the LEDs do not light at the low current. Criteria: (VF > 2.0V at IF=0.5mA)

(3) Moisture Proof Package

It is recommended that moisture proof package be used.

(4) Storage

Before opening the package ,The LEDs should be kept at 30° C or less and 70%RH or less. The LEDs should be used within a year.

(5) After opening the package, The LEDs should be soldered within 24 hours (1days) after opening the package. If unused LEDs remain, they should be stored in moisture proof packages, such as sealed containers with packages of moisture absorbent material (silica gel).

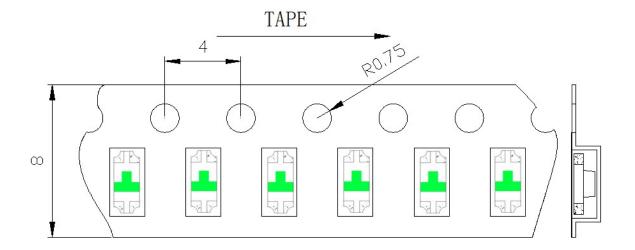
If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions Baking treatment: more than 12 hours at $60\pm5^\circ$ C.



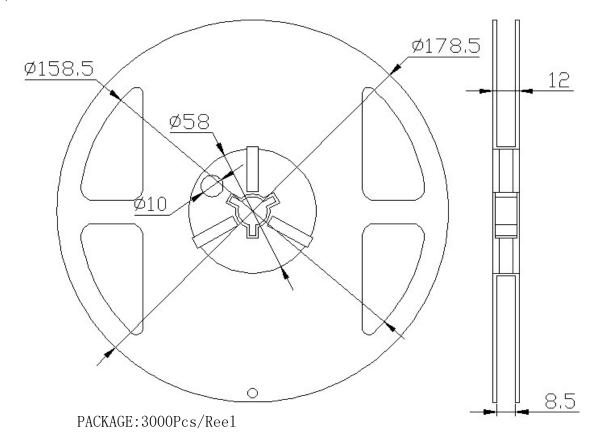


6. PACKAGING

- (1) The LEDs are packed in cardboard boxes after taping.
- (2) Taping Specifications
- (3) Manner of packing



(4) Reel Dimensions







The label on the minimum packing unit shows ; Part Number, Lot Number, Ranking, Quantity.

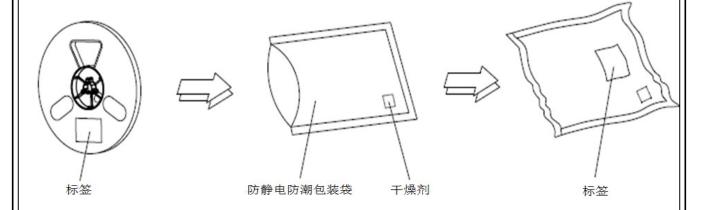
(6)
Keep away from water, moisture in order to protect the LEDs.

(7)

The LEDS may be damaged if the boxes are dropped or receive a strong impact against them.

so precautions must be taken to prevent any damage.

7. Moisture Resistant Packaging



Note: The tolerances unless mentioned is ± 0.1 mm, Unit:mm

Surface mount LED is packed in reels, LED is packed in plain or antistatic bags and then packed in cartons. Cartons are used to protect the LED from mechanical shocks during shipping. Cartons are not waterproof, so please be waterproof