SAMPLE APPROVAL SHEET

DESCRIPTIONS:

•1.6x1.5x0.58mm SMD LED

•Emitting Color:

•Lens Color: Water Clear

CUSTOM	[ER:
MASON	P/N:HS-1615-RYG-同向
CUSTOM	ER P/N:

CUSTOMER APPROVED SIGNATURES

APPROVRD BY	CHECKED BY



SPEC PRELIMINARY

1.6x1.5X0.58mm SMD CHIP LED

PART NO: HS-1615-RYG-同向

ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING LECTROSTATIC ISCHARGE SENSITIVE **DEVICES**

Features

- 1.6mmx1.5mm SMT LED, 0.58m THICKNESS.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 4000PCS/REEL.
- RoHS COMPLIANT.

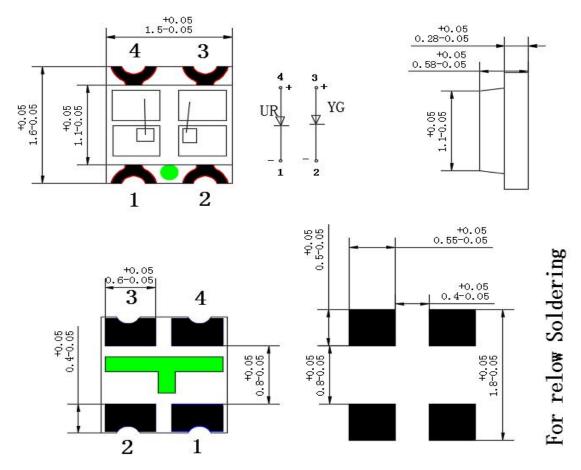
Applications

backlighting in dashboard and switch.

Telecommunication: indicator and back-lighting in telephone and fax.

Flat backlight for LCD switch and symbol.

Package Dimensions



Notes:

- All dimensions are in millimeters.
 Tolerance is ±0.15 unless otherwise noted.
- 3. Specifications are subject to change without notice.



Device Selection Guide

Part No.	Cł	Lens color	
	Material	Emitted color	
C0606URYG-同向	(AlGalnP)	RED	Water Clear
	(AlGalnP)	Yellow Green	

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value			Unit
i didilictei		UR	YG		Ome
Power Dissipation	PD	60	60		mW
Forward Current	IF	20 20		mA	
Peak Forward Current*1	IFP	100 100			mA
Reverse Voltage	VR	5		V	
Operating Temperature	Topr	-40°C To +85°C			35°C
Storage Temperature	Tstg	-40°C To +85°C			35°C

◆ Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min	typ	Max	Unit	Test Conditions	
F - m m. 1 \ / - 14 - m -	VFUR)	1.7		2.3	V	IF=20mA	
Forward Voltage	VF(YG)	1.7		2.5	V	IF=20mA	
Reverse Current	IR	_		10	μA	VR=5V	
Dominant Wave Length	λd(UR)	617		630	nm	IF=20mA	
	λd(YG)	566		576	nm	IF-ZUIIIA	
Luminous Intensity	IV(UR)	70	_	200	mcd	IF=20mA	
Luminous Intensity	IV(YG)	25		74	mcd	IF-ZUMA	
Viewing Angle	201/2	_	120	_	Deg.	IF=20mA	

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

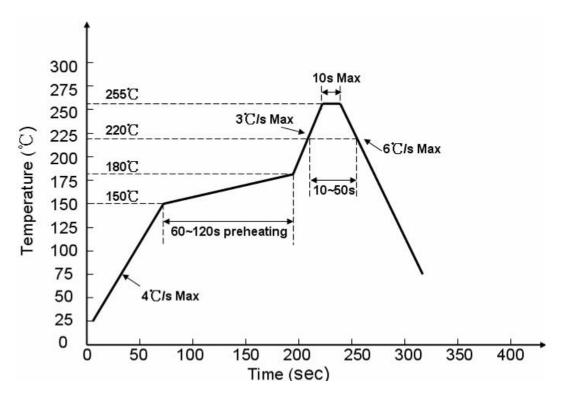
1. Chromaticity Coordinates: ±0.01

Notes: *1: Pulse width≤0.1ms, Duty cycle≤1/10

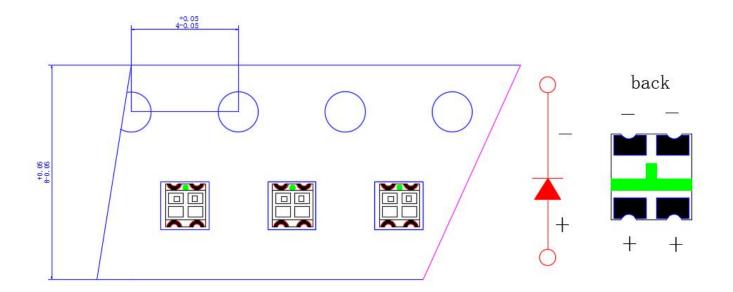


2. Luminous Intensity: ±15%3. Forward Voltage: ±0.1V

Soldering Profile

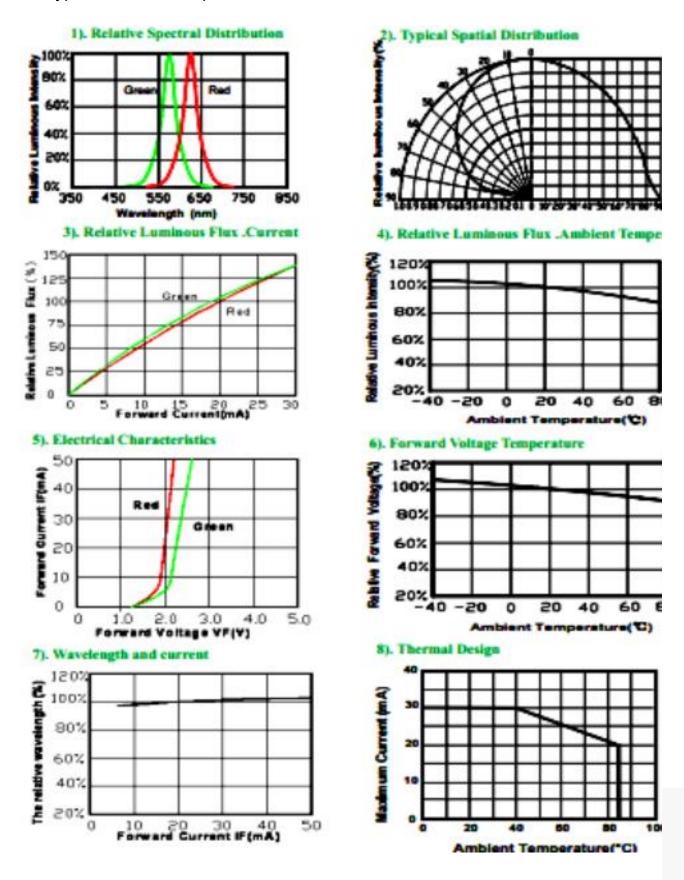


◆ Carrier Tape Dimensions: Loaded Quantity 4000pcs Per Reel





◆ Typical Electrical/Optical Characteristics Curves





◆ VF Rank

Ponk	,	VF		Condition	
Rank		MIN	MAX	Condition	
	R1	1.7	1.9		
UR	R2	1.9	2.1		
	R3	2.1	2.3		
	G1	1.9	2.1	IF=20mA	
YG	G2	2.1	2.3		
	G3	2.3	2.5		

Tolerance:±0.05V

◆ IV Rank

Rank		ין	V	Condition
Kan	IK	MIN	MAX	Condition
	R1	70	100	
UR	R2	100	130	
	R3	130	160	
	R4	160	200	IF=20mA
	G1	25	36	
YG	G2	36	51	
	G3	51	74	

olerance:±15%

◆ WLD Rank

Rank		IV		Condition
Kai	iK	MIN	MAX	Condition
UR	R1	617	625	
	R2	625	630	
	G1	566	568	
	G2	568	570	IF=20mA
YG	G3	570	572	
	G4	572	574	
	G5	574	576	



◆ Judgment criteria of failure for the reliability

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	V _F (V)	I _F =5mA	Initial Level*1.1
Reverse current	$I_R(UA)$	V _R =5V	Over U*2
Luminous intensity	IV(mcd)	I _F =5mA	Initial Level*0.7

Note: 1.U means the upper limit of specified characteristics.

2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

◆ CAUTIONS:

1.Storage

• In order to avoid the absorption of moisture, it is recommended to store in the dry box (or desicca tor) with a desiccant. Otherwise, to store them in the following environment is recommended.

Temperature: 5°C~30°C Humidity: 60%HR max.

Attention after opened

However LED is corresponded SMD, when LED be soldered dip, interfacial separation may affect The light transmission efficiency, causing the light intensity to drop. Attention in followed.

- a. After opened and mounted, the soldering shall be quickly.
- b. Keeping of a fraction

Temperature: 5°C~40°C Humidity: less than 30%

- In case or more than 1 week passed after opening or change color of indicator on desiccant compo nents shall be dried 10-12hr. at 60°C±3°C.
- In case of supposed the components is humid, shall not be dried dip-solder just before. 100Hr at 80°C±3°C or 12Hr at 100°C±3°C

2.ESD (Electrostatic Discharge)

Static Electricity or power surge will damage the LED.

The following procedures may decrease the possibility of ESD damage.

- All production machinery and test instruments must be electrically grounded.
- Use a conductive wrist band or anti-electrostatic glove when handling these LEDs.
- Maintain a humidity level of 50% or higher in production areas.
- Use anti-static packaging for transport and storage.