

HUIHE

ShangHai HuiHe I.T. CO ., LTD.
RM301, No27, BaZi Qiao RD, FengPu, ShangHai , CHINA
Tel: **+86-021-6710-9059** Fax: **+86-021-6710-9589**
E-mail: **joyce@well-ton.com** Http://**www.well-ton.com**

Pb Free

RoHs

DATA SHEET

PART NO. : HH-0603YC-120

REV : A / 1

CUSTOMER'S APPROVAL : _____ DCC : _____

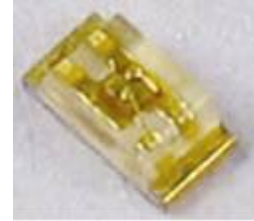
DRAWING NO. : DS-38-07-0088

DATE : 2007-10-10

Page : 1

HH-0603YC-120

YELLOW



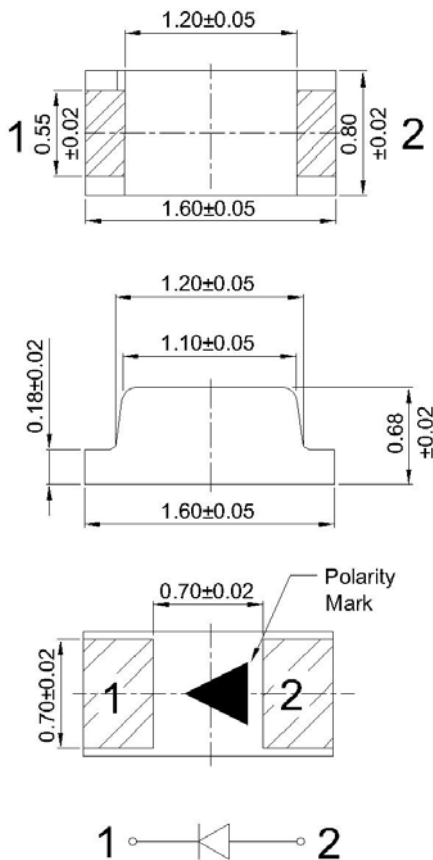
Features

- 1.6mmX0.8mm SMT LED, 0.68mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 4000PCS / REEL .

Description

This devices are made with TS GaAsP/GaP.

Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ±0.2mm unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.
4. Burr around bottom of epoxy may be 0.5mm max..

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
HH-0603YC-120	YELLOW (GaAsP/GaP)	WATER CLEAR		130	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Typ.	Units	Test Conditions
λD	Dominate Wavelength	Yellow	586	591	nm	IF=20mA
C	Capacitance	Yellow	—	45	pF	VF=0V;f=1MHz
VF	Forward Voltage	Yellow	1.8	2.0	V	IF=20mA
IR	Reverse Current	All	—	5	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Yellow	Units
Power dissipation	70	mW
DC Forward Current	30	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

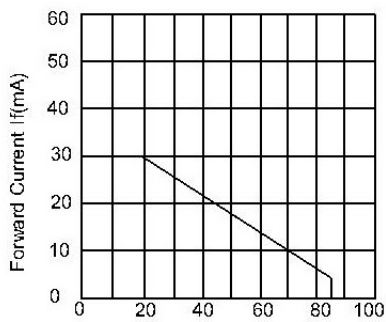
YELLOW

HH-0603YC-120

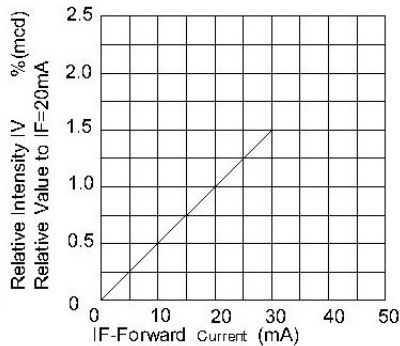
Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.
 Confidence level :90% LTPD :10%

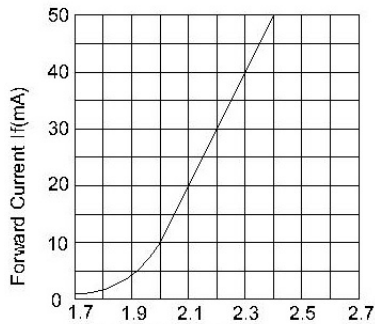
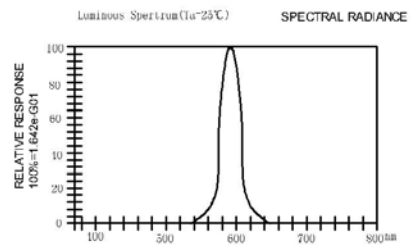
No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:240°C±5°C Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100°C 15 min. ∞ 5 min L:-40°C 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100°C 5 min. ∞ 10 sec. L:-10°C 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100°C	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.: -55°C	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I _F =20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85°C/R.H85%	1000Hrs.	22Pcs.	0/1



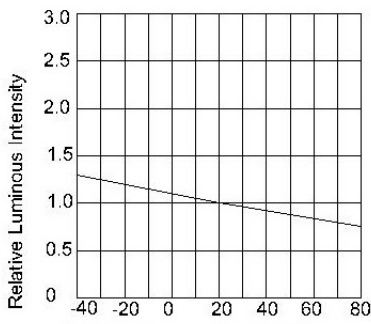
Ambient Temperature T_A(°C)
 Forward current
 Derating Curve



IF-Forward Current (mA)
 Luminous Intensity vs.
 Forward Current



Forward Voltage (V)
 Forward Current VS.
 Forward Voltage



Ambient Temperature T_a(°C)
 Luminous Intensity
 Ambient Temperature

