

Wah Wang Data Sheet For 0603 Green SMD

Part No: WW-GIS190TS-G



Address	: Unit 01, 19 th Floor, Nanyang Plaza, No.57 Hung To Road, Kwun Tong, Kowloon, Hong Kong
Tel	: 852-2512 9939 (10 line)
Fax	: 852-2344 2398
Web Site	: www.wahwang.com
S.D.N. or D.N. No.	:
Customer Name	:
Sample Approval Signature	:
Date	:

WAH WANG HOLDINGS (HONG KONG) CO., LTD.

: WAH WANG OPTOELECTRONIC (SHENZHEN) CO LTD ;

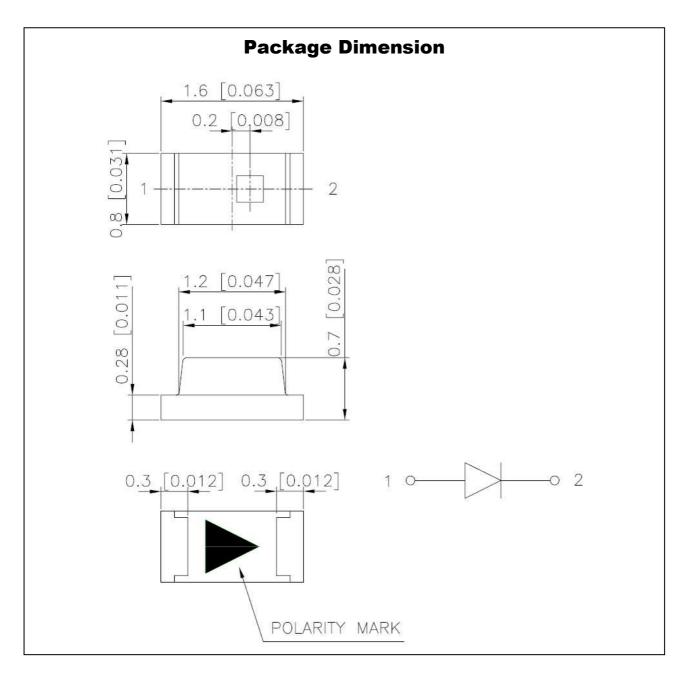
Features

- 1. Chip LED.
- 2. SMD LED dimensions: 1.6(L) x 0.8(W) x 0.7(H) mm
- 3. High intensity

Factory

- 4. Extremely wide view angle
- 5. Anti-electrostatic tape package
- 6. Reliable and stable

	-		
Part No.	WW-GIS190TS-G		
Lens Color	Water Clear		
Emitting Color	Green		
Resin (mold)	Ероху		



WAH WANG HOLDINGS (HONG KONG) CO., LTD. Factory

: WAH WANG OPTOELECTRONIC (SHENZHEN) CO LTD ;

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit				
Power Dissipation	100	mW				
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA				
Continuous Forward Current	25	mA				
Reverse Voltage	5	V				
Operating Temperature Range	-40°C to +85°C					
Storage Temperature Range	-40°C to +85℃					

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	295		650	mcd	I _F = 20mA (Note 7)
Viewing angle	201⁄2		120		Deg	(Note 8)
Wavelength	٨D	515		525	nm	I _F = 20mA(Note 9)
Forward Voltage	V _F	2.8		3.6	V	I _F = 20mA
Reverse Current	I _R			10	μA	$V_R = 5V$

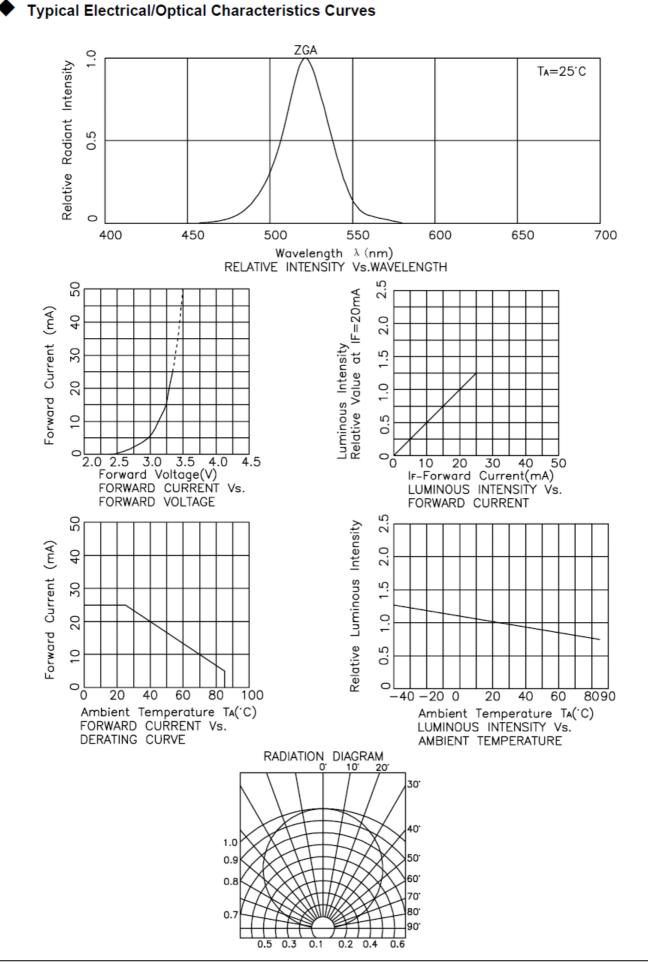
Notes:

- 1. All dimensions are in millimeter.
- 2. Tolerance is ±0.25mm(.01") unless others otherwise noted.
- 3. Protruded resin under flanges is 1.0mm(0.4") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.
- 6. Caution in ESD: Static Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED.All devices, equipment and machinery must be properly grounded.
- 7. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eyeresponse curve.
- 8. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 9. It use many parameters that correspond to the CIE 1931 2°
- X,Y, and Z are CIE1931 2°values of Red, Green and Blue content of the measurement.

NAH WANG HOLDINGS (HONG KONG) CO., LTD.

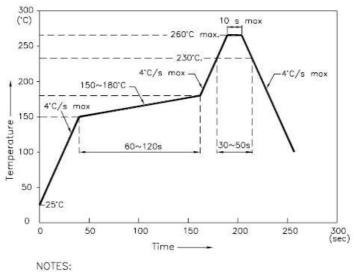
: WAH WANG OPTOELECTRONIC (SHENZHEN) CO LTD ;

Factory





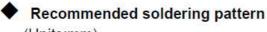
Soldering Profile



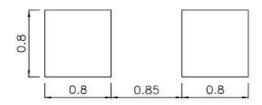
Reflow Soldering Profile For Lead-free SMT Process.

We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
Don't cause stress to the epoxy resin while it is exposed to high temperature.

3.Number of reflow process shall be 2 times or less.

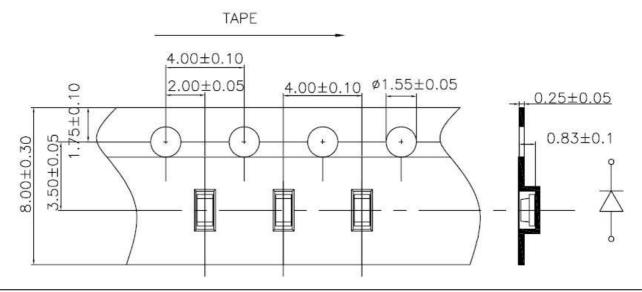


(Units:mm)



Tape specifications

(Units:mm)



NAH WANG HOLDINGS (HONG KONG) CO., LTD.

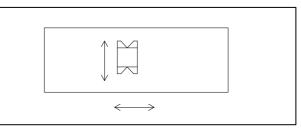
: WAH WANG OPTOELECTRONIC (SHENZHEN) CO LTD ;

CAUTIONS- SMD LED

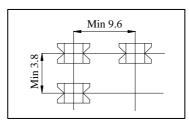
Precaution to be taken in designing apparatus using SMD LED:

Factory

- The current limiting resistor must be provided in the driving circuit of SMD LED and the circuit should be designed so as to drive SMD LED within the rated value: Care must be taken to design of the apparatus so that the momentary reverse voltage (or excessive current) is not be charged to SMD LED when the circuit is turned ON or OFF.
- (2) Care must be taken to design the circuit so that the average current is within the rated value of SMD LED if the pulse driving is adapted. And also the circuit should be designed so that the reverse voltage is not charged to SMD LED when the SMD LED is turned off.
- (3) For reflow soldering, the accuracy of SMD LED is within +/- 0.3mm approximately in "X" and "Y" directions. (In case of dip soldering, it is dependent on mounting accuracy.)
- (4) SMD LED is raised by 0 to 0.3mm approximately after soldering.
- (5) In order to avoid the stress in soldered area that may be caused by bending of the circuit board, mounting of SMD LED at a right against longer sided of the circuit board is recommended as illustrated below.
- (6) The pitch between SMD LED should be 3.8 X 9.6mm minimum as illustrated below. .



(7) When assembling the circuit board into the finished products, care must be taken to avoid the component parts from touching other parts.



Others

- (1) Care must be taken not to cause stress to the epoxy resin portion of SMD LED while it is exposed to high temperature.
- (2) Care must be taken not to the rub the epoxy resin portion of SMD LED with a hard or sharp edged article such as the sand blast and the metal hook as the epoxy resin is rather soft and liable to be damaged.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by Wah Wang manufacturer:

Other Similar products are found below :

LTST-C19GD2WT LTST-N683GBEW 597-3006-607F 597-3403-607F LTW-K140SZR40 LTW-M140ZVS 598-8110-100F 598-8170-100F 598-8610-202F 7012X7 AAAF5060QBFSEEZGS 12-22SURSYGC/S530-A3/E2/TR8 1383SURT/S530-A3/TR1(R) APT1608QGW EASV1803BA0 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A 17-21/G6C-FM1N2B/3T FAT801-S SSL-LXA227IC-TR31A AM27ZGC03 APB3025SGNC APHK1608VGCA APT2012QGW CLMVC-FKA-CA1E1L81BB7C3C3 CLYBA-FKA-CFHHKL9BBB7A363 CMD11504UR LTW-020ZDCG LTW-21TS5 LTW-K140SZR30 HSMY-C177 UYGT801-S KVH1C100MF6R 42-21SYGC/S530-E1/TR8 YGFR411-H 597-2311-402F 597-2712-602F 5973212407NF 597-3302-607F 597-5202-407F 598-8330-117F SAW8WA2A-L35M40-CA SML013WBDW1 SML-LX0402IC-TR CLMVC-FKA-CLBDGL7LBB79353 VLMKG3400-GS08