



OF-SMD1608Y YELLOW



ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE

SENSITIVE DEVICES



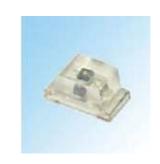
This devices are made with TS InGaAIP.

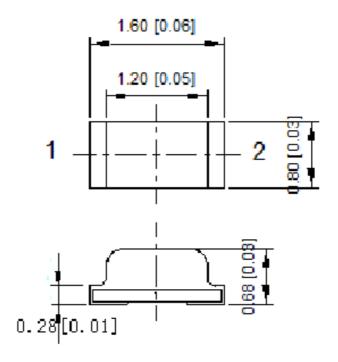
Features

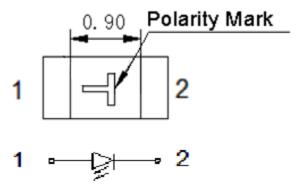
- •0603 pack.
- •Low power consumption.
- •Wide viewing angle.
- •Compatible with infrared and vapor phase fellow solder process.
- •Package: 4000pcs/ reel .

Applications

- •Indicator and backlighting in telephone ard fax.
- •Flat backlight for LCD.
- ·Switch and symbol.
- •General use.









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	lv(mcd) @20mA		Viewing Angle	
			Min.	Тур.	2Θ1/2	
OF-SMD1608Y	YELLOW (AlGalnP)	Water clear	460	700	130°	

Note:

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

Electrical / Optical Characteristics at TA=25℃

Parameter	Symbol	Device	Condition	Min	Тур	Max	Unit
Forward Voltage DC	VF	Yellow	IF=20mA	1,8		2,4	V
Reverse Current	IR	Yellow	VR=5V			10	uA
Dominate Wavelength	λD	Yellow	IF=20mA	586		596	nm
Capacitance	IF(rec)	Yellow	VF-0V; f=1MHz		20		pF

Absolute Maximum Ratings at TA=25℃

Parameter	White	Units		
Power Disspation	60	mW		
DC Forward Current	25	mA		
Peak Forward Current	100	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40℃ to +85℃			

Note:

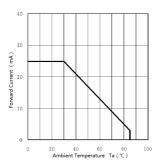
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



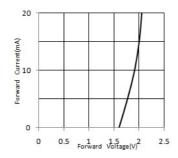
Reliability Test Items And Conditions
The reliability of products shall be satisfied with items listed below. Confidence level :90% LTPD :10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:260°Cmax T=10 sec	3 times.	22Pcs.	0/1
3	Thermal Shock	-45-125°C 15min/10s/15min	100 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp:100°C±5°C	1000Hrs.	11Pcs.	0/1
5	Low Temperature Storage	Temp:-40°C±5°C	1000Hrs.	11Pcs.	0/1
6	DC Operating Life	Operating Life Ta=25°C±5°C I _F =20mA		11Pcs.	0/1
7	High Temperature/High Humidity	emperature/High		11Pcs.	0/1

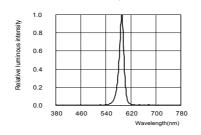
Ambient Temperature vs. Forward Current



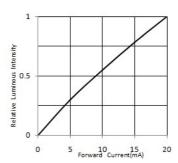
Forward Voltage VS. Forward Current



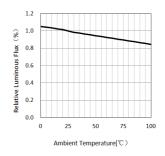
Relative spectral emission



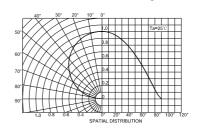
Forward Current VS. Relative Intensity



Ambient Temperature VS. Relative Intensity



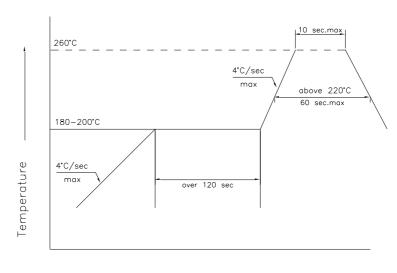
Radiation diagram





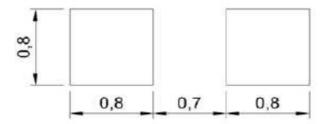
SMT Reflow Soldering Instructions

- 1. Reflow soldering should not be done more than three times.
- 2. When soldering, do not put stress on the LEDs during heating



Time _____

Recommended Soldering Pattern (Units: mm)





Tape Specifications (Units: mm)

