

Features

- Package in 8mm tape on 7" diameter reel.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Mono-color type.
- Pb-free.
- The product itself will remain within ROHS complaint version.

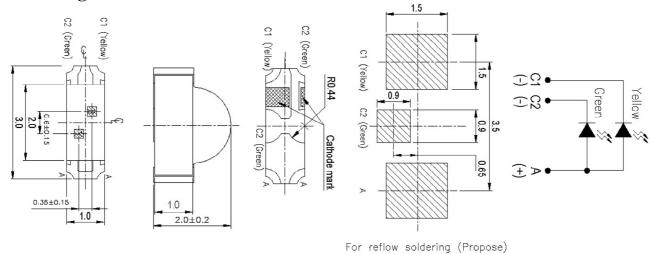
Descriptions

- The SMD Taping is much smaller than lead frame type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature applications. etc.

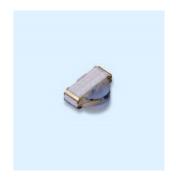
Applications

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD, switch and symbol.
- General use.

Package Outline Dimensions



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





Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	Y4:25 G4:25	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~+90	°C
Power Dissipation	Pd	Y4:60 G4:60	mW
Peak Forward Current (Duty 1/10 @1KHz)	IF (PEAK)	Y4:60 G4:60	mA

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	Y4:45 G4:28		Y4:112 G4:72	mcd	IF=20mA
Viewing Angle	2 <i>θ</i> 1/2		120		deg	IF=20mA
Peak Wavelength	λp		Y4:591 G4:575		nm	IF=20mA
Dominant Wavelength	λd		Y4:589 G4:573		nm	IF=20mA
Spectrum Radiation Bandwidth	Δλ		Y4:15 G4:20		nm	IF=20mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current	IR			10	μA	VR=5V

Notes:

1.Tolerance of Luminous Intensity ±10%

2.Tolerance of Dominant Wavelength $\pm 1nm$

3.Tolerance of Forward Voltage $\pm 0.1V$

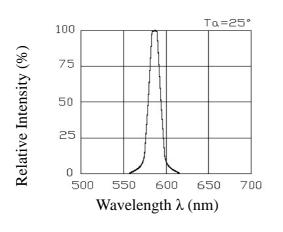
Page:2 of 6

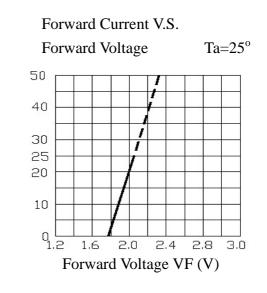


Typical Electro-Optical Characteristics Curves

Y4

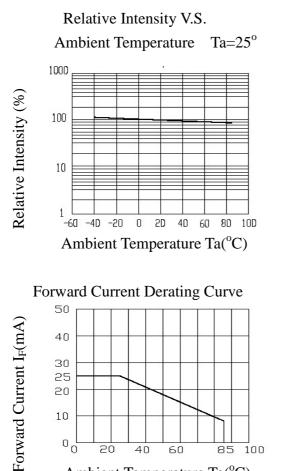
Spectrum Distribution





Forward Current I_F(mA)

Relative Intensity (%)



20

10

00

20

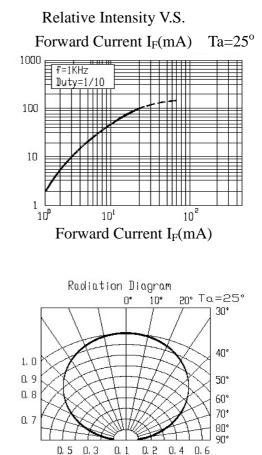
40

Ambient Temperature Ta(^oC)

60

100

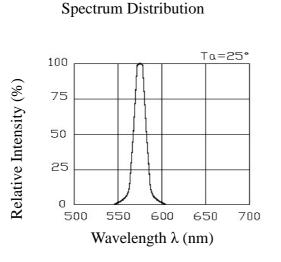
85

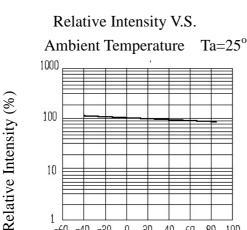




Typical Electro-Optical Characteristics Curves

G4



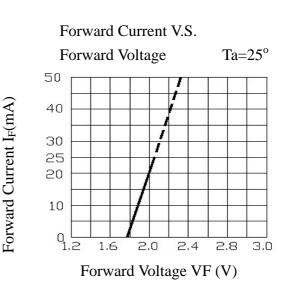


2D 40 60 80 100

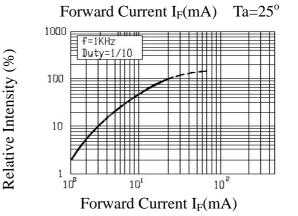
0

1

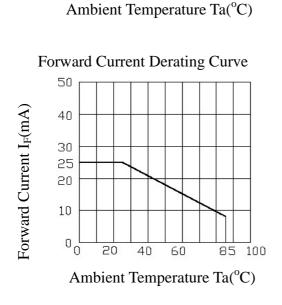
-60 -4D -20



Relative Intensity V.S.



Radiation Diagram 20° Ta=25° 10° 0* 30* 40° 1. 0 0, 9 50° 0, 8 60° 70* 0, 7 8**0**° 90° 0.5 0. 3 0.1 D. 2 0.4 0.6



Page:4 of 6



Label explanation

CAT: Luminous Intensity Rank

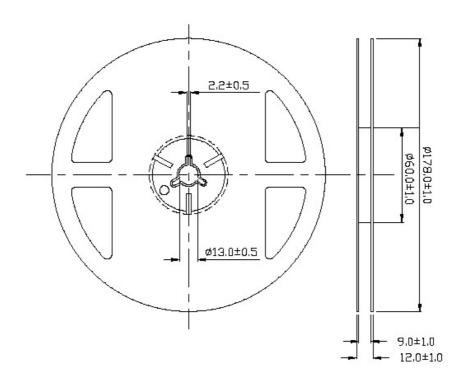
HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank

Side View SMD LED AOS-S301020Y4IG4H



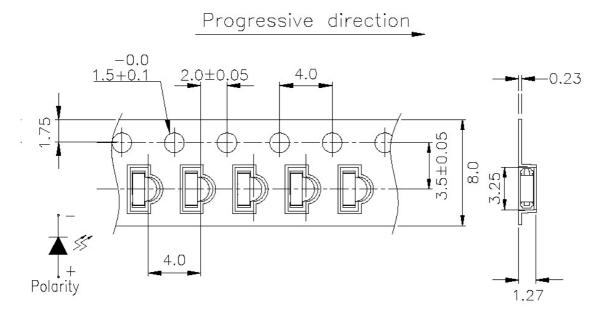
Reel Dimensions



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



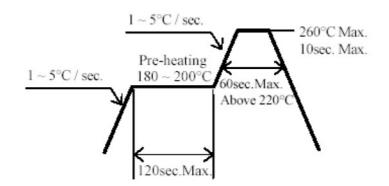
Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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

Soldering Condition

1 Pb-free solder temperature profile



2 Reflow soldering should not be done more than two times.

3 When soldering, do not put stress on the LEDs during heating.

4 After soldering, do not warp the circuit board.