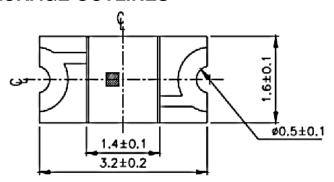
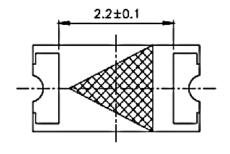
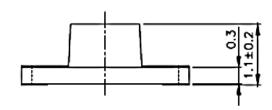


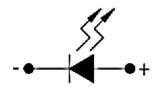
3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

PACKAGE OUTLINES



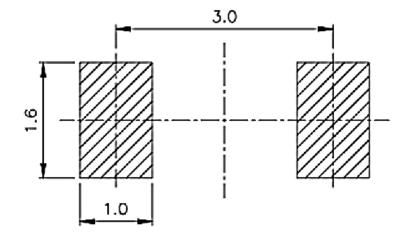






Polarity

RECOMMENDED SOLDER PATTERN



- 1. All dimensions are in millimeters (mm).
- 2. Tolerances are ± 0.1 mm unless otherwise noted.

Part Number	Material	Color	
Part Number	Material	Emitted	Lens
L152L-YGC-TR	AlGaInP	Yellow Green	Water Clear



3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

ABSOLUTE MAXIMUM RATINGS

 $(Ta=25^{\circ}C)$

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	60	mW
Peak Pulse Current Duty 1/10@10KHz	I _{FP}	60	mA
Forward Current Per Chip	I _F	25	mA
Reverse Current @ 5V	I _R	5	V
Electrostatic Discharge	ESD	2000	V
Operating Temperature	T _{OPR}	-40~+85	°C
Storage Temperature	T _{STG}	-40~+90	°C
Soldering Temperature	T _{SOL}	Reflow: 260°C for 10 sec. Hand: 350°C for 3 sec.	

OPTICAL-ELECTRICAL CHARACTERISTICS

(Ta=25°C)

					•	•
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Luminous Intensity	I _V		14.5	ŀ	36	mcd
Dominant Wavelength	λ_{D}		567.5		575.5	nm
Spectrum Radiation	Δλ	$I_F = 20 \text{mA}$		20		nm
Forward Voltage	V _F		1.75		2.35	V
Viewing Angle	201/2			130		deg
Reverse Current	I _R	V _R =5V			10	μA

- 1. Forward voltage data did not include $\pm 0.1V$ testing tolerance.
- 2. Luminous intensity data did not included $\pm 11\%$ testing tolerance.
- 3. Dominant Wavelength data did not include ± 1 nm testing tolerance.



3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

LUMINOUS INTENSITY CLASSIFICATION

BIN CODE	I _V (Im) at 20mA			
BIN CODE	Min.	Max.		
L2	14.5	18.0		
M1	18.0	22.5		
M2	22.5	28.5		
N1	28.5	36.0		

DOMINANT WAVELENGTH CLASSIFICATION

CROUR	BIN CODE	I _V (Im) at 20mA		
GROUP		Min.	Max.	
В	C15	567.5	569.5	
	C16	569.5	571.5	
	C17	571.5	573.5	
	C18	573.5	575.5	

FORWARD VOLTAGE CLASSIFICATION

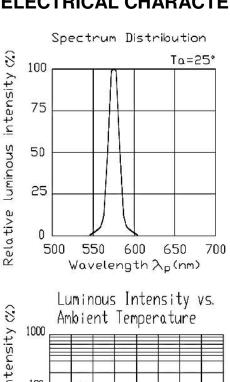
GROUP	BIN CODE	V _F (v) at 20mA		
		Min.	Max.	
В	0	1.75	1.95	
	1	1.95	2.15	
	2	2.15	2.35	

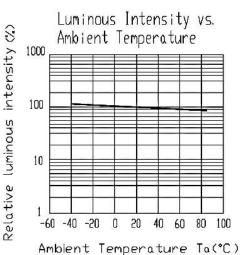
- 1. Forward voltage data did not include $\pm 0.1V$ testing tolerance.
- 2. Luminous intensity data did not included $\pm 11\%$ testing tolerance.
- 3. Dominant Wavelength data did not include ± 1 nm testing tolerance.

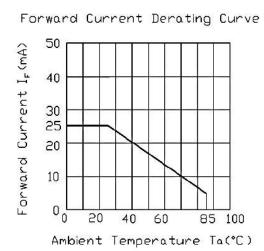


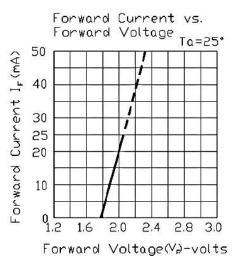
3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

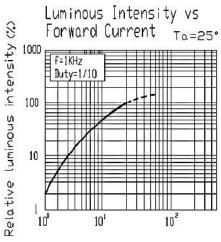
OPTICAL-ELECTRICAL CHARACTERISTICS CURVE

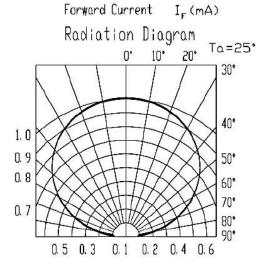








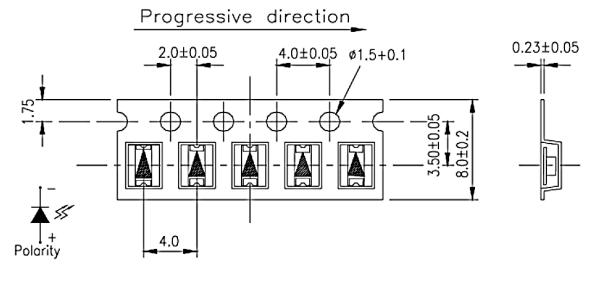


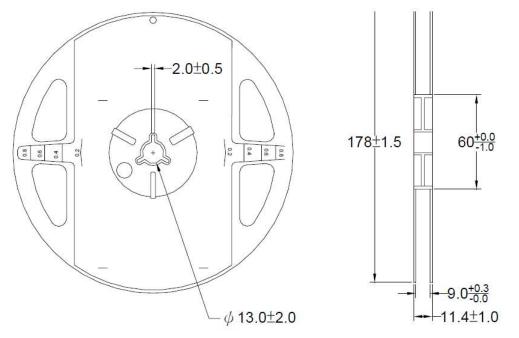




3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

PACKAGING DIMENSION





- 1. Tolerance unless mentioned is ± 0.1 mm, Angle ± 0.5 , Unit=mm.
- 2. 2000pcs / 7" Reel; 8.0mm Tape



3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

PRECAUTION FOR USE:

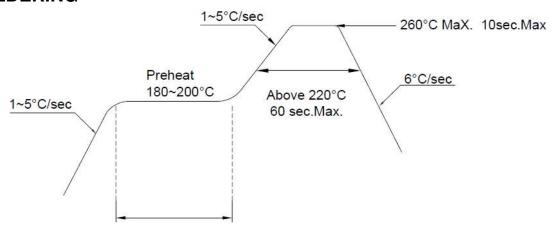
Storage time:

- 1. Don't open the moisture-resistant bag before LEDs are ready to use.
- 2. Before use: LEDs should be kept at 30°C or less and 90% RH or less.
- 3. After use: LEDs floor life is 1 year under 30°C or less and 60% RH or less. If unused LEDs remain, it should be stored in moisture-resistant package.
- 4. If the LEDs have exceeded the storage time or the moisture absorbent material (silica gel) has faded, the baking treatment of 60±5°C for 24 hrs should be performed.

Over Current-Protection

The LEDs are sensitive parts, slight voltage shift will cause big current change and will cause burn out. Customer must apply resistors for protection.

LED SOLDERING

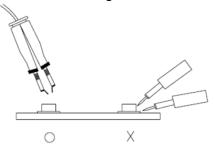


Notes:

- 1. Reflow soldering should not be done more than two times.
- 2. When soldering, do not put stress on the LEDs during heating.
- 3. After soldering, do not warp circuit board.

REPAIRING

In principle repair should not be done after the LEDs have been soldered. When repairing is unavoidable, it should be confirmed beforehand not to be damaged whether the characteristics of the LEDs by repairing and a double-head soldering iron should be used.





3.2 x 1.6 x 1.1mm YELLOW GREEN SMD LED

RELIABILITY TEST:

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/Re
1	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 Cycles	22 PCS	0/1
2	Thermal Shock	H : +100°C 5min ∫ 10sec L : -10°C 15min	300 Cycles	22 PCS	0/1
3	High Temperature Storage	Temp. : 100°ℂ	1000 Hrs.	22 PCS	0/1
4	High Temperature /High Humidity	85°C / 85%RH	1000 Hrs.	22 PCS	0/1
5	Low Temperature Storage	Temp. : -40°C	1000 Hrs.	22 PCS	0/1
6	Reflow Soldering	Temp. : 260°ℂ±5°ℂ Min. 5sec.	6 Min.	22pcs	0/1
7	DC Operating Life	IF = 20 mA	1000 Hrs.	22 PCS	0/1