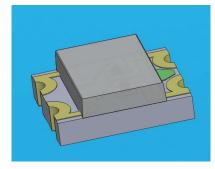
DATASHEET

SMD • B 15-22/G6Y2C-A30/2T



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 compliant version.
- Compliance with EU REACH.
- Compliance Halogen Free .(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

Description

• The 15-22 SMD LED 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.

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• Besides, lightweight makes them ideal for miniature applications. etc.

Applications

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

Device Selection Guide

Code	Chip Materials	Emitted Color	Resin Color
G6	AlGaInP	Brilliant Yellow Green	Water Clear
Y2	AlGaInP	Brilliant Yellow	 Water Clear

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Code	Rating	Unit
Reverse Voltage	V _R		5	V
		G6	25	
Forward Current	l _F	Y2	25	— mA
eak Forward Current (Duty 1/10 @1KHz)		G6	60	
	I _{FP}	Y2	60	— mA
Power Dissipation	Pd	G6	60	
		Y2	60	— mW
	ESD _{HBM}	G6	2000	
Electrostatic Discharge		Y2	2000	— V
Operating Temperature	T _{opr}		-40 ~ +85	°C
Storage Temperature	Tstg		-40 ~ +90	°C
Soldering Temperature	Tsol		Reflow Soldering : 260 $^\circ\!\mathbb{C}$ for 10 sec. Hand Soldering : 350 $^\circ\!\mathbb{C}$ for 3 sec.	

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Code	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	lv	G6	28.5		72.0	– mcd	
		Y2	28.5		72.0	mea	
Viewing Angle	20 _{1/2}			140		deg	
Peak Wavelength) n	G6		575		_ nm	I _F =20mA
	λр	Y2		591		- nm	
Dominant Wavelength	λd	G6	567.5		575.5	- nm	
		Y2	585.5		594.5		
Spectrum Radiation Bandwidth	$ riangle \lambda$	G6		20		- nm	
		Y2		15			
Forward Voltage	V _F	G6	1.7	2.0	2.4	- V	
		Y2	1.7	2.0	2.4		
Reverse Current	I _R	G6			10	- μΑ	V _R =5V
		Y2			10		v _R =3v

Note:

1.Tolerance of Luminous Intensity: ±11%

2.Tolerance of Dominant Wavelength ±1nm

G6 Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
N1	28.5	36.0		
N2	36.0	45.0		
P1	45.0	57.0	mcd	I _F =20mA
P2	57.0	72.0		

Bin Range Of Dom. Wavelength

Bin Code	Min.	Max.	Unit	Condition
C15	567.5	569.5		
C16	569.5	571.5		
C17	571.5	573.5	nm	I _F =20mA
C18	573.5	575.5		
Y2 Bin Range of	Luminous Intensi	ty	Gł	

Y2

Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
N1	28.5	36.0		
N2	36.0	45.0		
P1	45.0	57.0	mcd	I _F =20mA
P2	57.0	72.0		

Bin Range Of Dom. Wavelength

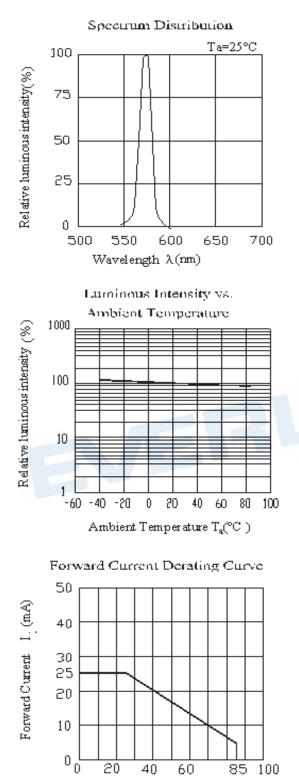
Bin Code	Min.	Max.	Unit	Condition
D3	585.5	588.5		
D4	588.5	591.5	nm	I _F =20mA
D5	591.5	594.5	_	

Note:

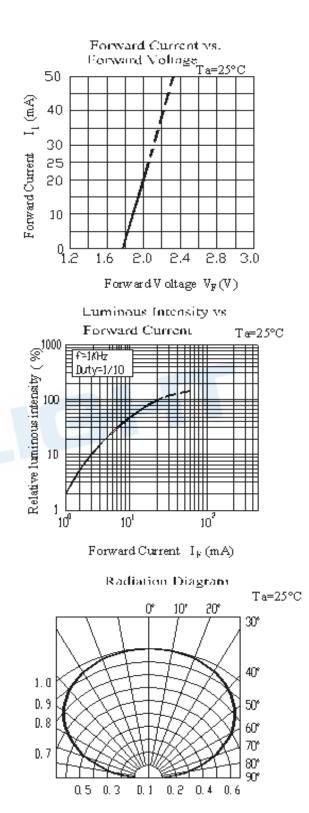
1.Tolerance of Luminous Intensity: ±11%

2.Tolerance of Dominant Wavelength ±1nm

Typical Electro-Optical Characteristics Curves G6



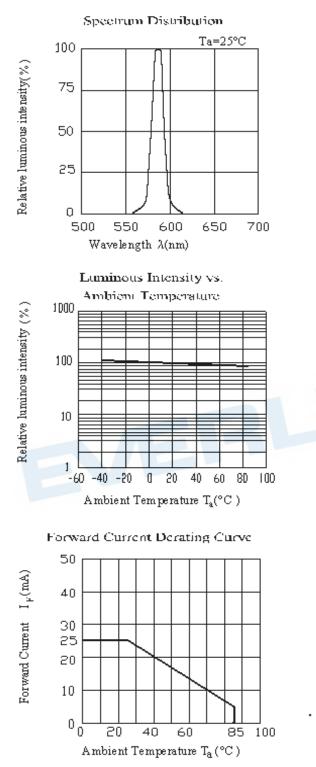
Ambient Temperature Ta(°C)

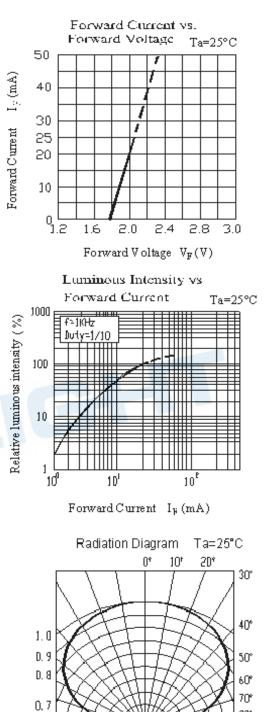


80%

90°

Typical Electro-Optical Characteristics Curves Y2





D. 5

D. 3

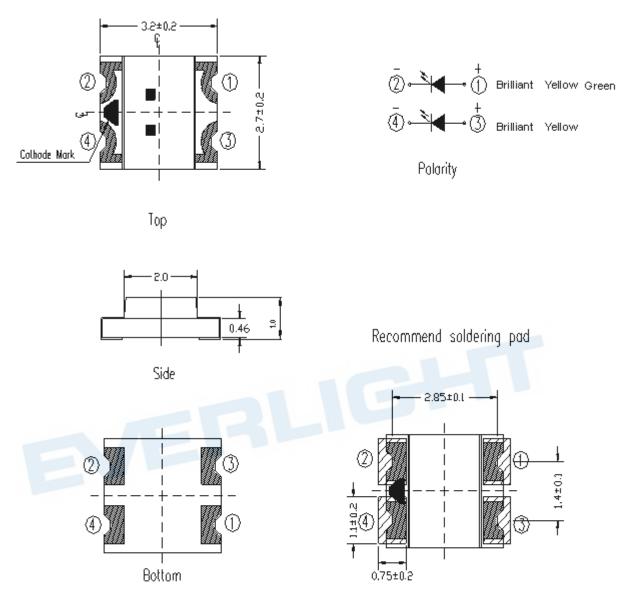
0. 1

D. 2

0.4 0.6

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Package Dimension

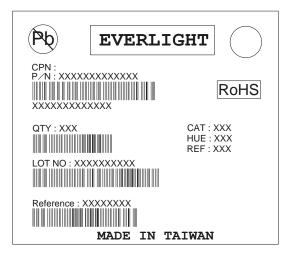


Suggested pad dimension is just for reference only. Please modify the pad dimension based on individual need.

Note: Tolerances unless mentioned ±0.1mm. Unit = mm

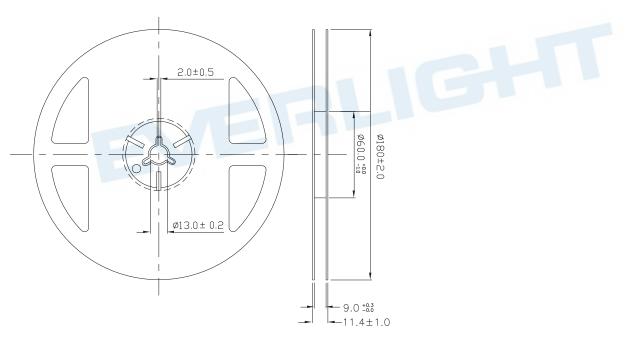


Label Explanation



- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Chromaticity Coordinates & Dom. Wavelength Rank
- REF: Forward Voltage Rank
- · LOT No: Lot Number

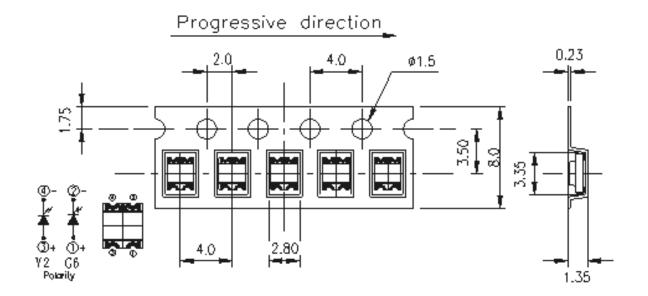
Reel Dimensions



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

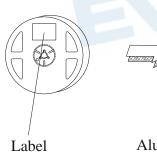


Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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

Moisture Resistant Packaging



Aluminum moisture-proof bag

f bag Desiccant

[]

Label



Precautions For Use

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 Do not open moisture proof bag before the products are ready to use.

2.2 After opening the package: The LEDs should be kept at 30° C or less and 60%RH or less.

2.3 The LEDs should be used within 168 hours (7days) after opening the package .

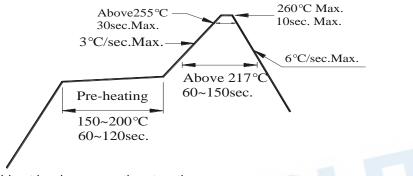
If unused LEDs remain, it should be stored in moisture proof packages.

2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment : $60\pm5^{\circ}$ C for 24 hours.

3. Soldering Condition

3.1 Pb-free solder temperature profile



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

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

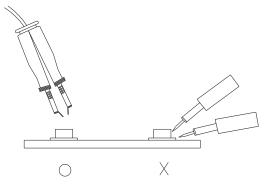
3.4 After soldering, do not warp the circuit board.

4.Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350° C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

5.Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



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Application Restrictions

High reliability applications such as military/aerospace, automotive safety/security systems, and medical equipment may require different product. If you have any concerns, please contact Everlight before using this product in your application. This specification guarantees the quality and performance of the product as an individual component. Do not use this product beyond the specification described in this document.



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