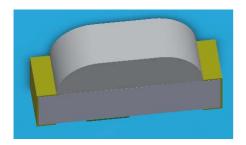


DATASHEET

SMD • B 12-215/G6C-BN2P2L/3C(GH)



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 12-215 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.
- 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.

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Device Selection Guide

Chip Materials	Emitted Color	Resin Color
AlGainP	Brilliant Yellow Green	Water Clear

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit	
Reverse Voltage	V_R	5	V	
Forward Current	lf	25	mA	
Peak Forward Current (Duty 1/10 @1KHz)	Гер	60	mA	
Power Dissipation	Pd	60	mW	
Electrostatic Discharge	ESDHBM	2000	V	
Operating Temperature	Topr	-40 ~ +85	$^{\circ}$ C	
Storage Temperature	Tstg	-40 ~ + 90	$^{\circ}$ C	
Soldering Temperature	Tsol	Reflow Soldering : 260 $^{\circ}\mathbb{C}$ for 10 sec. Hand Soldering : 350 $^{\circ}\mathbb{C}$ for 3 sec.		

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	lv	36.0		72.0	mcd	_
Viewing Angle	2θ _{1/2}		130		deg	
Peak Wavelength	λр		575		nm	_
Dominant Wavelength	λd	567.5		575.5	nm	− I _F =20mA
Spectrum Radiation Bandwidth	Δλ		20		nm	_
Forward Voltage	V _F	1.70		2.30	V	
Reverse Current	IR			10	μΑ	V _R =5V
Note: 1.Tolerance of Luminous Intensity: ±11% 2.Tolerance of Dominant Wavelength ±1nm 3. Tolerance of Forward Voltage: ±0.05V						

Note:

- 1.Tolerance of Luminous Intensity: ±11%
- 2.Tolerance of Dominant Wavelength ±1nm
- 3. Tolerance of Forward Voltage: ±0.05V

狀態:

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Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
N2	36.0	45.0		
P1	45.0	57.0	mcd	$I_F = 20 \text{mA}$
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		I 00 A
C17	571.5	573.5	mm nm	$I_F = 20 \text{mA}$
C18	573.5	575.5		

Bin Range Of Forward Voltage

Bin Code	Min.	Max.	Unit	Condition
19	1.70	1.80		
20	1.80	1.90		
21	1.90	2.00	V	I _F =20mA
22	2.00	2.10	V	IF =ZUITIA
23	2.10	2.20		
24	2.20	2.30		

Note:

1.Tolerance of Luminous Intensity: ±11%

2.Tolerance of Dominant Wavelength ±1nm

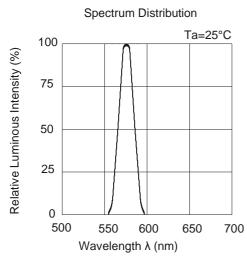
3. Tolerance of Forward Voltage: ±0.05V

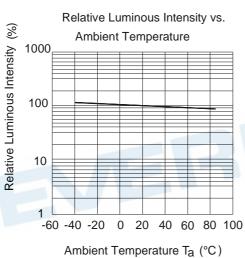
4

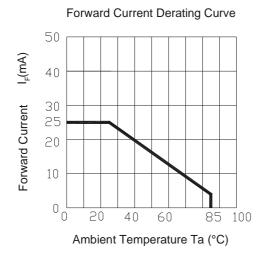
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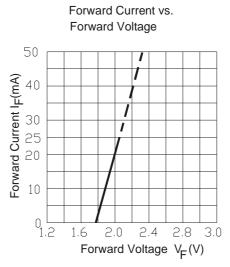


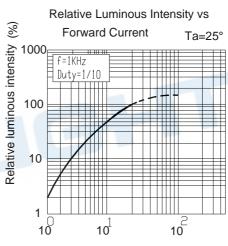
Typical Electro-Optical Characteristics Curves

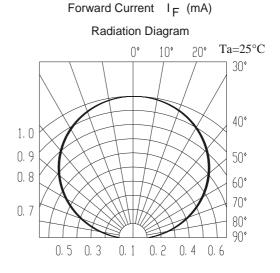






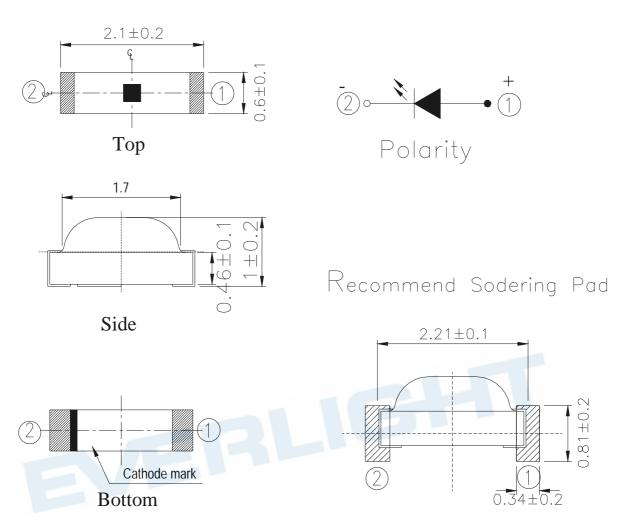






狀態:

Package Dimension

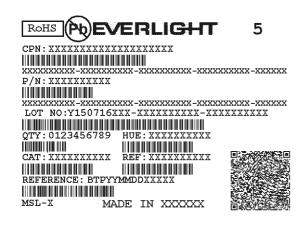


Suggested pad dimension is just for reference only. Please modify the pad dimension based on individual need.

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

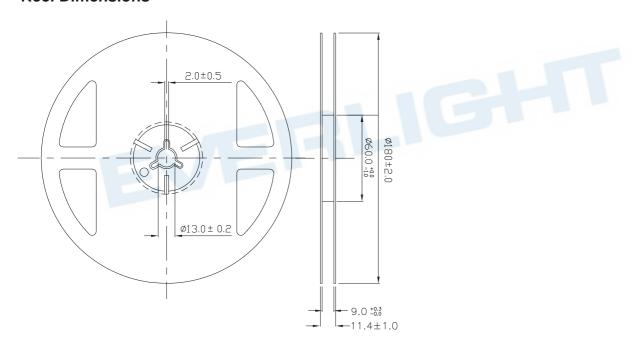


Moisture Resistant Packing Materials Label Explanation



- · 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

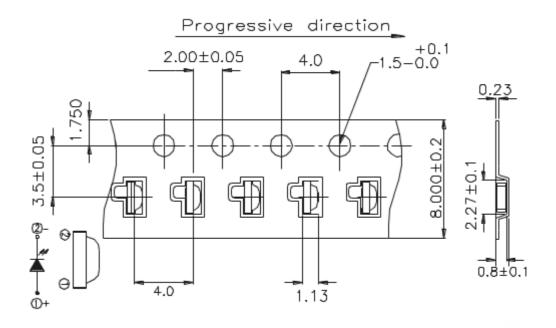


Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm

狀態:

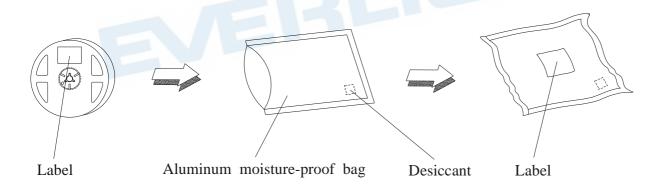


Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel



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

Moisture Resistant Packaging



Ver.:



Precautions For Use

1. Over-current-proof

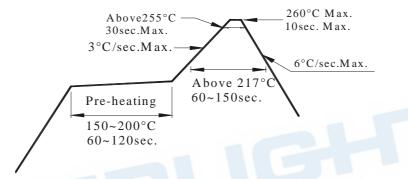
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

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±5°C for 24 hours.

3. Soldering Condition

3.1 Pb-free solder temperature profile



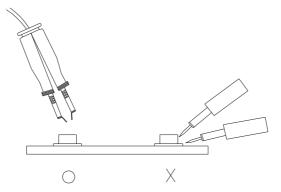
- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

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.





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.



狀態:

Release Date:

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X-ON Electronics

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SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A AM27ZGC03 APB3025SGNC

APFA3010SURKCGKQBDC APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST-008BGEW LTW-020ZDCG

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598-8040-100F 598-8070-100F 598-8140-100F 598-8610-200F EAST2012GA0 EAPL3527GA5 SML-LXL1209SYC/ATR EAST2012RA0

CMD91-21VRC/TR7 SML-LXR851SGSIC-TR SML-512PWT86A SMF-2432GYC-TR LTST-C194TBKT-5A CLX6E-FKC
CH1M1D1BB7C3D3 SML-LXL0805USBC-TR SML-LX2835SYSUGCTR