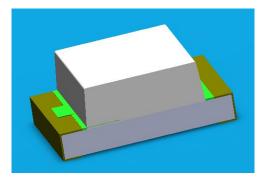
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DATASHEET

SMD • B

17-215/S2C-BJ1K2AX/3T



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.

Description

- The 17-215 SMD LED is much smaller than lead frame type components, thus enable smaller board ize, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature applications. etc.

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Applications

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

Device Selection Guide

Chip			
Materials	Emitted Color	Resin Color	
AlGaInP	Brilliant Orange	Water Clear	

Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	25	mA
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	60	mA
Power Dissipation	Pd	60	mW
Operating Temperature	T _{opr}	-40 ~ +100	
Storage Temperature	Tstg	-40 ~ +90	
Electrostatic Discharge	ESD _{HBM}	2000	V
Soldering Temperature	T _{sol}	Reflow Soldering : 2 Hand Soldering : 350	

Electro-Optical Characteristics (Ta=25)

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Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	lv	4.50		11.5	mcd	
Viewing Angle	20 _{1/2}		130		deg	
Peak Wavelength	р		611		nm	
Dominant Wavelength	d	597.5		609.5	nm	I _F =2mA
Spectrum Radiation Bandwidth			17		nm	
Forward Voltage	V _F	1.55		2.15	V	
Reverse Current	I _R			10	μA	V _R =5V

Note:

1. Tolerance of Luminous Intensity: ±11%

2. Tolerance of Dominant Wavelength ±1nm

3. Tolerance of Forward Voltage: ±0.1V

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Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
J1	4.50	5.80		
J2	5.80	7.20		
K1	7.20	9.00	mcd	I _F =2mA
K2	9.00	11.5		

Bin Range Of Dom. Wavelength

Bin Code	Min.	Max.	Unit	Condition
D7	597.5	600.5		
D8	600.5	603.5		
D9	603.5	606.5	nm	I _F =2mA
D10	606.5	609.5		

Bin Range Of Forward Voltage

Bin Code	Min.	Max.	Unit	Condition
00	1.55	1.75		
0	1.75	1.95	V	I _F =2mA
1	1.95	2.15		

Note:

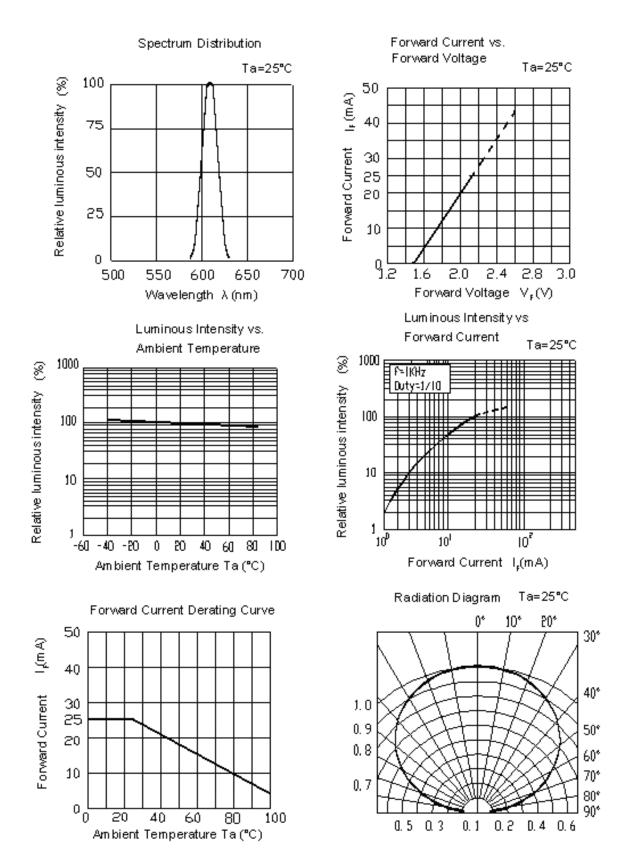
1. Tolerance of Luminous Intensity: ±11%

2. Tolerance of Dominant Wavelength ±1nm

3. Tolerance of Forward Voltage: ±0.1V

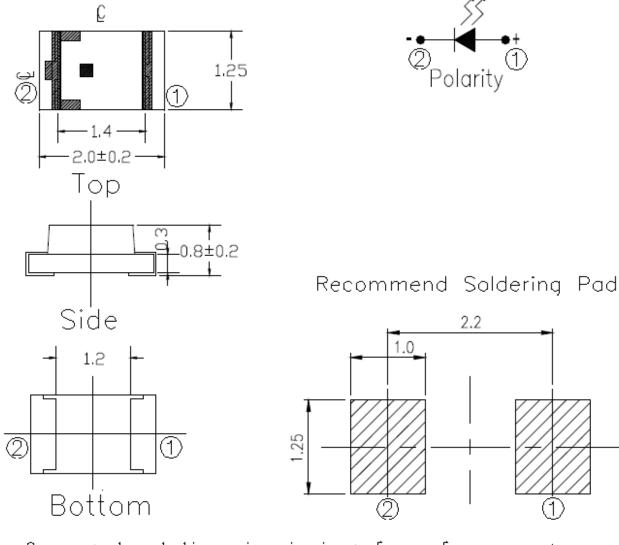
EI

Typical Electro-Optical Characteristics Curves



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Package Dimension

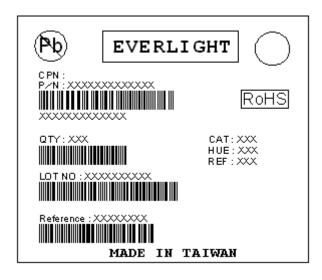


Suggested pad dimension is just for reference only. Please modify the pad dimension based on individual need.

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

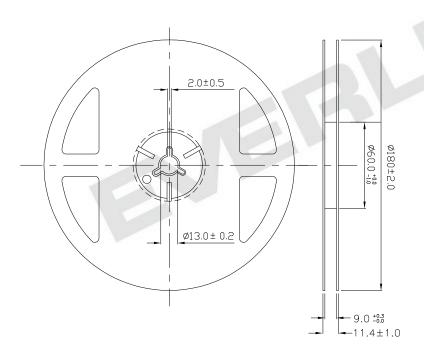
Moisture Resistant Packing Materials

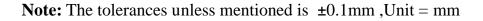
Label Explanation



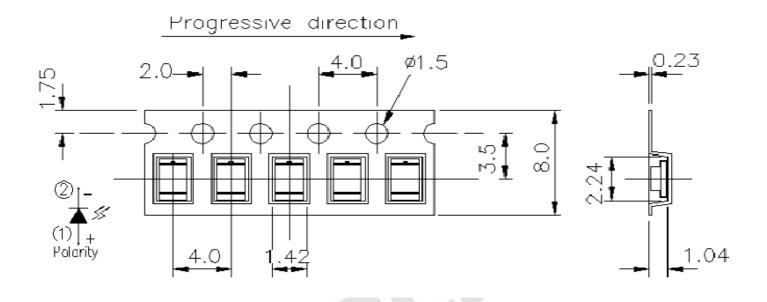
- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Chromaticity Coordinates & Dom. Wavelength
 Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number

Reel Dimensions



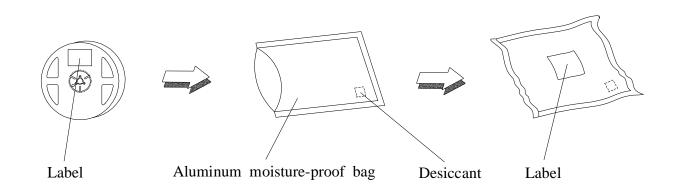


Carrier Tape Dimensions: Loaded quantity 3000 PCS per reel



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

Moisture Resistant Packaging



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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 Before opening the package: The LEDs should be kept at 30 or less and 90%RH or less.

2.3 After opening the package: The LED's floor life is 1 year under 30 or less and 60% RH or less.

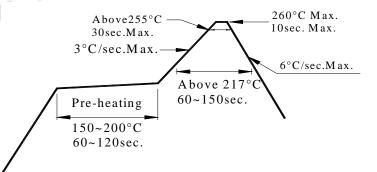
If unused LEDs remain, it should be stored in moisture proof packages.

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 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

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Each terminal is to go to the tip of soldering iron temperature less than 350 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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