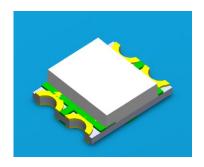


## **DATASHEET**

## SMD B

## 19-226/BHG7C-C30/2T



#### **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 19-226 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.

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

#### **Applications**

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



LifecyclePhase:

mired Period: Forever



#### **Device Selection Guide**

Chip Type	Chip Materials	Emitted Color	Resin Color
ВН	InGaN	Blue	Water Clear
G7	AlGalnP	Brilliant Yellow Green	Water Clear

## Absolute Maximum Ratings (Ta=25 )

Parameter	Symbol	Rating	Unit
Reverse Voltage	$V_R$	5	V
Famuurd Ourmant	I <sub>F</sub>	BH: 10	
Forward Current		G7:25	mA
Peak Forward Current		BH: 100	
(Duty 1/10 @1KHz)	I <sub>FP</sub>	G7:60	mA
Davies Disable ation	Pd	BH: 40	7010/
Power Dissipation		G7:60	mW
Operating Temperature	T <sub>opr</sub>	-40 ~ +85	
Storage Temperature	Tstg	-40 ~ +90	
Electrostatic Dischause	ESD <sub>HBM</sub>	BH: 150	V
Electrostatic Discharge		G7:2000	V
Coldering Tomporeture	$T_{sol}$	Reflow Solder	ing : 260 for 10 sec.
Soldering Temperature		Hand Solderin	ng: 350 for 3 sec.



## **Electro-Optical Characteristics (Ta=25)**

Symbol	Min.	Тур.	Max.	Unit	Condition
lv	BH: 18.0		45.0	mcd	
	G7: 11.5		22.5		
$2\theta_{1/2}$		120		deg	
р	BH :	468		nm	I <sub>F</sub> =5mA
	G7 :	575			
d	BH: 464.5		476.5	nm	
	G7:567.5		575.5		
	BH :	25			
	G7:	20		HIII	
V <sub>F</sub>	BH: 2.5		3.1	V	
	G7:1.6		2.4		
I <sub>R</sub>	BH :		50	μA	V <sub>R</sub> =5V
	G7 :		10		
	lv 2θ <sub>1/2</sub> p d	BH: 18.0 G7: 11.5 2θ <sub>1/2</sub> p BH: G7: d BH: 464.5 G7: 567.5 BH: G7: BH: 2.5 G7: 1.6 BH:	BH: 18.0 G7: 11.5  2θ <sub>1/2</sub> 120  BH: 468 G7: 575  BH: 464.5 G7: 567.5 BH: 25 G7: 20  BH: 2.5 G7: 1.6 BH:	BH: 18.0 45.0 G7: 11.5 22.5  2θ <sub>1/2</sub> 120  BH: 468  G7: 575  d BH: 464.5 476.5 G7: 567.5 575.5  BH: 25  G7: 20  V <sub>F</sub> BH: 2.5 3.1 G7: 1.6 2.4  BH: 50	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Note:

1.Tolerance of Luminous Intensity: ±11%



# BH Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
М	18.0	28.5		
N	28.5	45.0	mcd	I <sub>F</sub> =5mA

#### G7

## **Bin Range of Luminous Intensity**

Bin Code	Min.	Max.	Unit	Condition	

#### DATASHEET SMD ■ B 19-226/BHG7C-C30/2T



L1	11.5	14.5		
L2	14.5	18.5	mcd	I <sub>F</sub> =5mA
M1	18.0	22.5		

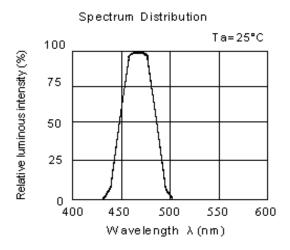
Note:

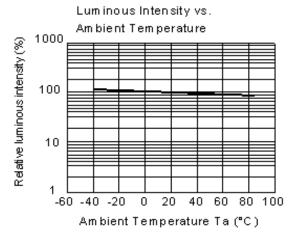
1. Tolerance of Luminous Intensity: ±11%

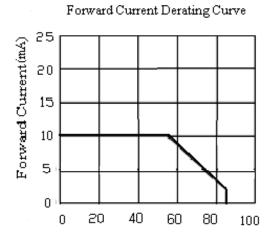


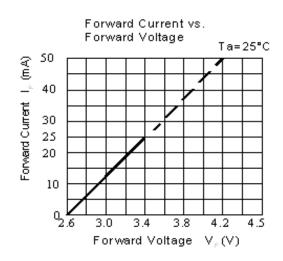


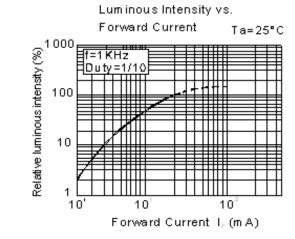
## Typical Electro-Optical Characteristics Curves BH

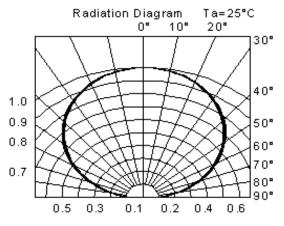








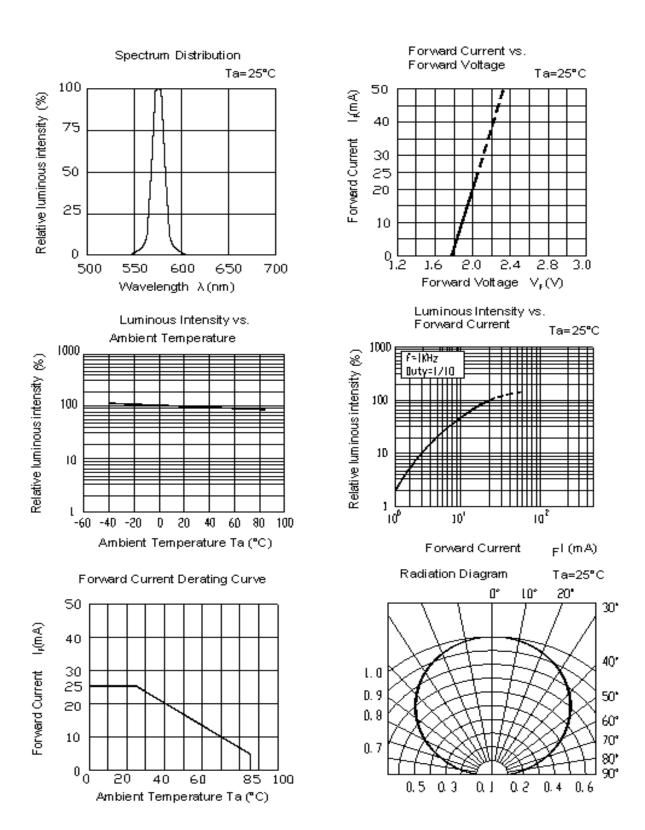




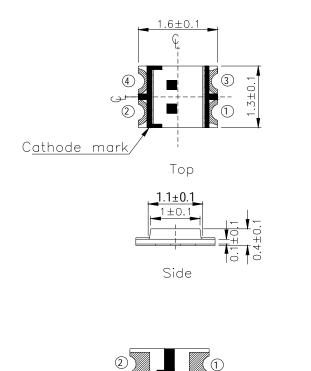


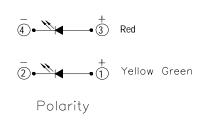
**Typical Electro-Optical Characteristics Curves G7** 



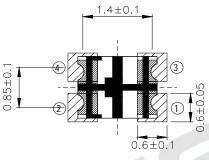


#### **Package Outline Dimensions**





Recommend soldering pad



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

Bottom

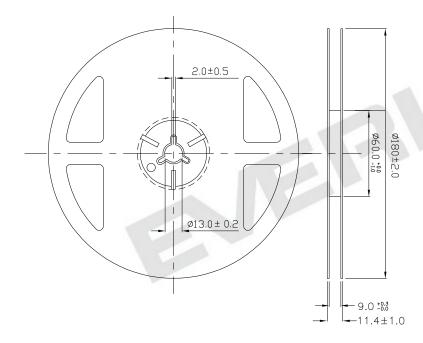


#### **Label Explanation**



- · 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

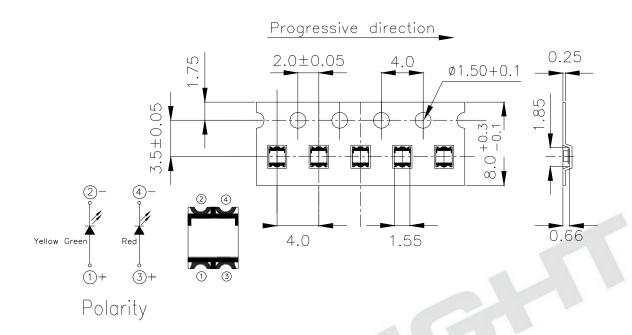
#### **Reel Dimensions**



Note: The tolerances unless mentioned is  $\pm 0.1$ mm ,Unit = mm

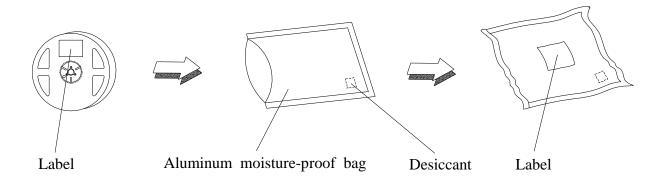
mired Period: Forever

## Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



**Note:** The tolerances unless mentioned is  $\pm 0.1$ mm, Unit = mm

## **Moisture Resistant Packaging**



nired Period: Forever

#### **Precautions For Use**

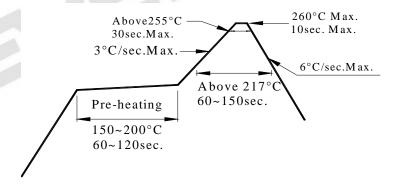
1. Over-current-proof

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 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 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 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

13

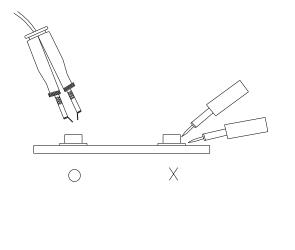
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the damage of the product is often started at the time of the hand solder.

#### 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.



## 单击下面可查看定价,库存,交付和生命周期等信息

>>Everlight(亿光)