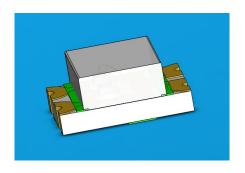


DATASHEET

SMD B

19-22/Y2BHC-B04/2T



Features

- Package in 8mm tape on 7" diameter reel.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase reflow solder process.
- Mutil-color type.
- Pb-free.
- The product itself will remain within RoHS compliant version.

Description

- The 19-22 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.

mired Period: Forever



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

Chip		Emitted Color	Racia Calar		
Туре	Materials	Emitted Color	Resili Coloi	Resin Color	
Y2	AlGaInP	Brilliant Yellow	Water Clear		
ВН	InGaN	Blue	vvatei Cleai		

Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
		Y2:25	
Forward Current	I _F	BH: 10	mA
Peak Forward Current		Y2:60	
(Duty 1/10 @1KHz)	I _{FP}	BH: 100	mA
Davis a Disability of the s	DJ	Y2:60	
Power Dissipation	Pd	BH: 40	mW
Operating Temperature	T _{opr}	-40 ~ +85	
Storage Temperature	Tstg	-40 ~ +90	



El	505	Y2:2000
Electrostatic Discharge	ESD _{HBM}	BH : 150
Caldering Tamponature	T_{sol}	Reflow Soldering : 260 for 10 sec.
Soldering Temperature		Hand Soldering: 350 for 3 sec.

Electro-Optical Characteristics (Ta=25)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminaua Intanaitu	lv Y2	18.0		45.0	mod	
Luminous Intensity	ВН	18.0		45.0	mcd	
Viewing Angle	2θ _{1/2}		130		deg	
Dools Woundonath	p Y2		591		nm	I _F =10mA
Peak Wavelength	ВН		468		11111	
Dominant Wayslan ath	d Y2		589		nm	
Dominant Wavelength	ВН		470		nm	
Spectrum Radiation Bandwidth	Y2		15		nm	

		ВН		25			
- IV.	V_{F}	Y2	1.70	2.00	2.40	V	
Forward Voltage		ВН	2.70	3.30	3.70		
Devenue Cumant	I_R	Y2			10	^	V _R =5V
Reverse Current		BH			50	μΑ	v _R -5v

Note:

Tolerance of Luminous Intensity: ±11%



Y2 Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
М	18.0	28.5	are d	1 40 1
N	28.5	45.0	mcd	I _F =10mA

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BH
Bin Range of Luminous Intensity

Bin Code	Min.	Max.	Unit	Condition
М	18.0	28.5		L 40 A
N	28.5	45.0	mcd	I _F =10mA

Note:

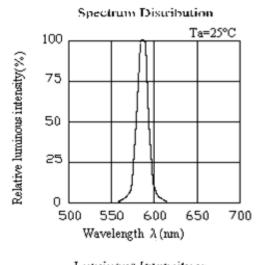
Tolerance of Luminous Intensity: ±11%

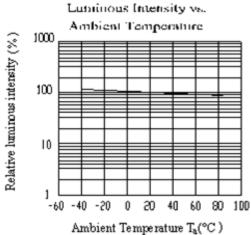


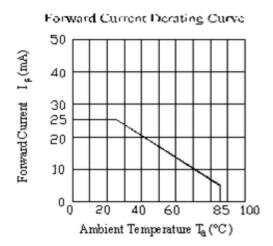


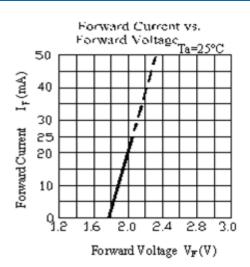
Typical Electro-Optical Characteristics Curves Y2

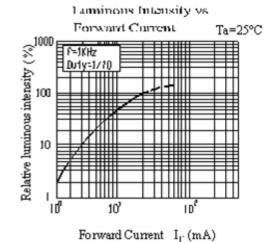


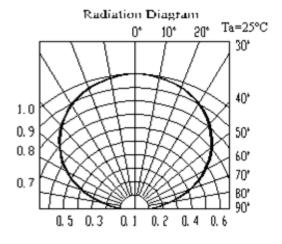






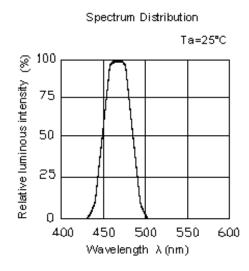


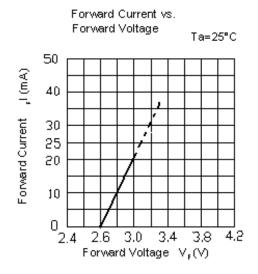


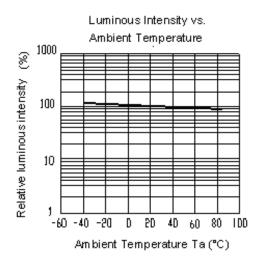


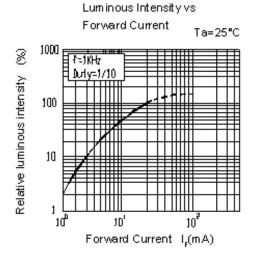
Typical Electro-Optical Characteristics Curves BH

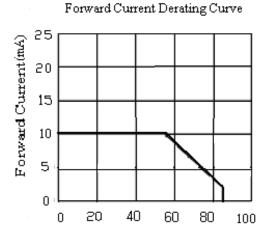
LifecyclePhase:

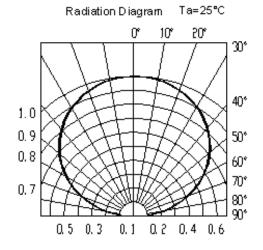






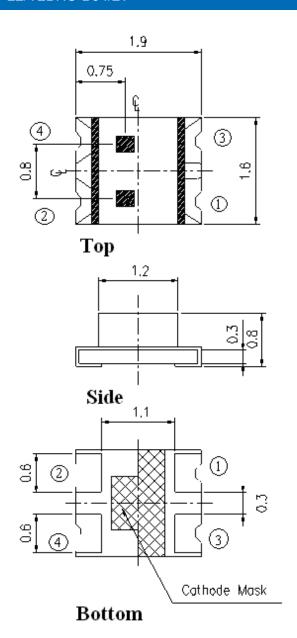


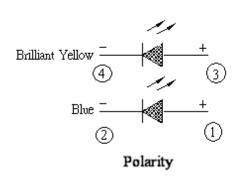




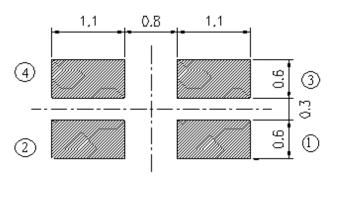
Package Dimension

LifecyclePhase:





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



Moisture Resistant Packing Materials

Label Explanation

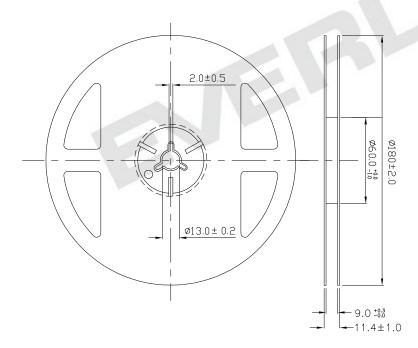


- · CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Chromaticity Coordinates & Dom. Wavelength

Rank

- REF: Forward Voltage Rank
- · LOT No: Lot Number

Reel Dimensions

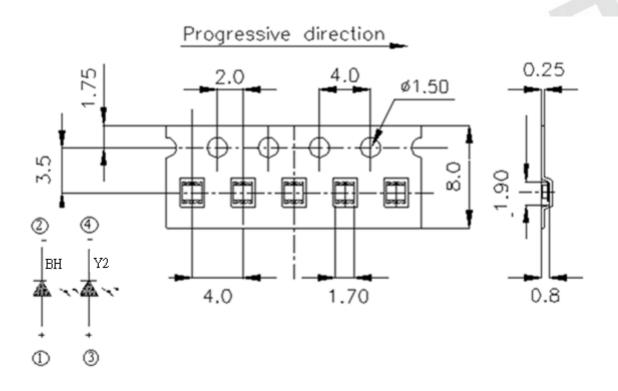


Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm

LifecyclePhase:

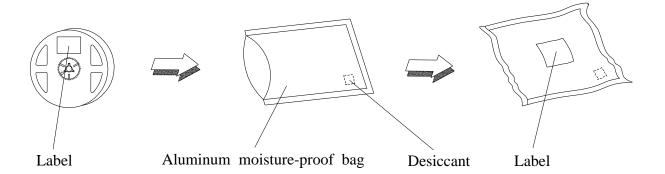
mired Period: Forever

Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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

Moisture Resistant Packaging



Precautions For Use

1. Over-current-proof

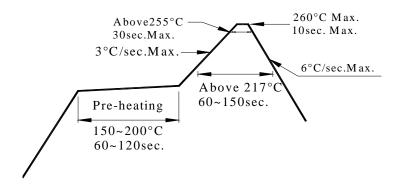
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

- 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 LED's should be used within 168 hours(7 days) 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

LifecyclePhase:



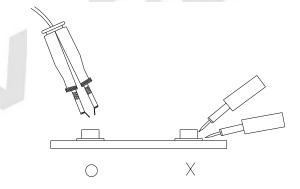
- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

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 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.

LifecyclePhase:

nired Period: Forever

单击下面可查看定价,库存,交付和生命周期等信息

>>Everlight(亿光)