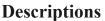
Technical Data Sheet

Reverse Package Top View LEDs

67-21UYC/S530-XX/TR10

Features

- P-LCC-2 package.
- White package.
- Optical indicator.
- Colorless clear window.
- Wide viewing angle.
- Suitable for vapor-phase reflow, Infrared reflow and wave solder processes.
- Computable with automatic placement equipment.
- Available on tape and reel (12mm Tape).
- Pb-free.
- The product itself will remain within RoHS compliant version



• The 67-21 series is available in soft orange, green, blue and yellow. Due to the package design, the LED has wide viewing angle and optimized light coupling by inter reflector. This feature makes the TOP View LEDs ideal for light pipe application. The low current requirement makes this device ideal for portable equipment or any other application where power is at a premium.

Applications

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

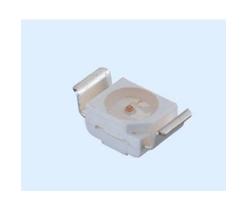
Device Selection Guide

Device No.: DSE-0017536

Chip	Emitted Color	Resin Color	
Material			
AlGaInP	Brilliant Yellow	Water Clear	

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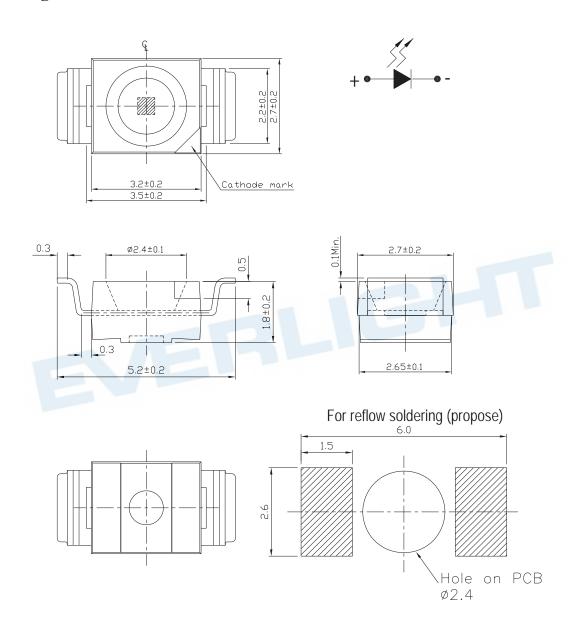


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Reverse Package Top View LEDs

67-21UYC/S530-XX/TR10

Package Dimensions



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

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Reverse Package Top View LEDs

67-21UYC/S530-XX/TR10

Absolute Maximum Ratings (Ta=25°C)

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

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Reverse Package Top View LEDs

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	*Chip Rank	Min.	Тур.	Max.	Unit	Condition
Luminous intensity		A2	40	55		mcd	I _F =20mA
		A3	50	83			
		A4	63	95			
	Iv	A5	80	123			
		A6	100	154			
		A7	125	215			
Viewing Angle	2 0 1/2			120		deg	I _F =20mA
Peak Wavelength	λр			591		nm	I _F =20mA
Dominant Wavelength	λd			589		nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ			15		nm	I _F =20mA
Forward Voltage	VF		1.7	2.0	2.4	V	I _F =20mA
Reverse Current	Ir				10	μ A	V _R =5V

*67-21UYC/S530-XX/TR10

└└⊳ Chip Rank

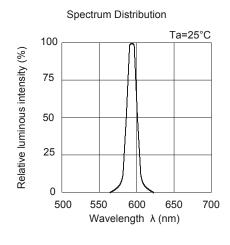
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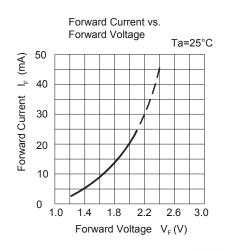
Technical Data Sheet

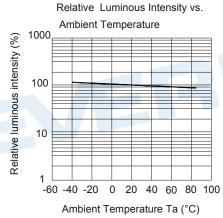
Reverse Package Top View LEDs

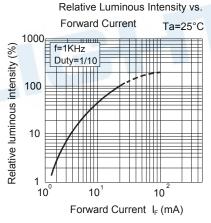
67-21UYC/S530-XX/TR10

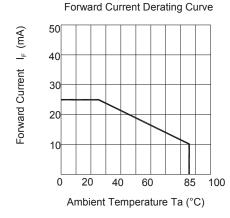
Typical Electro-Optical Characteristics Curves

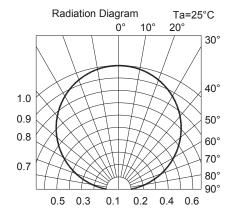












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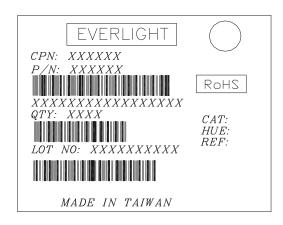
67-21UYC/S530-XX/TR10

Label Explanation

CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



Reel Dimensions 8178.0±1.0

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

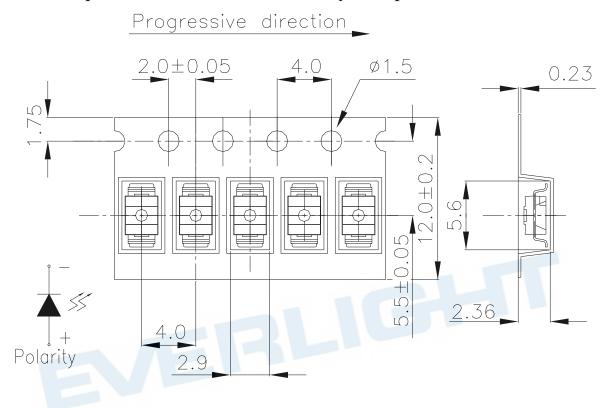
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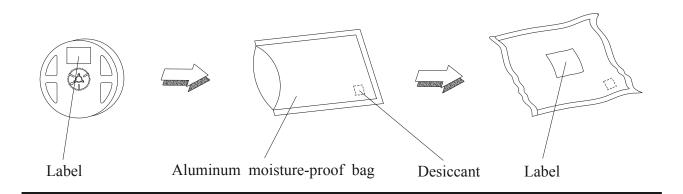
67-21UYC/S530-XX/TR10

Carrier Tape Dimensions: Loaded Quantity 2000 pcs Per Reel.



Note: Tolerances Unless mentioned ± 0.1 mm Unit = mm

Moisture Resistant Packaging



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Device No.: DSE-0017536

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Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

Confidence level: 90%

LTPD: 10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	Reflow Soldering	Temp. : 260°C±5°C Min. 5sec.	6 Min.	22 PCS.	0/1
2	Temperature Cycle	$H: +100^{\circ}\mathbb{C}$ 15min $\int 5 \text{ min}$ $L: -40^{\circ}\mathbb{C}$ 15min	300 Cycles	22 PCS.	0/1
3	Thermal Shock	H:+100°C 5min ∫ 10 sec L:-10°C 5min	300 Cycles	22 PCS.	0/1
4	High Temperature Storage	Temp. : 100°C	1000 Hrs.	22 PCS.	0/1
5	Low Temperature Storage	Temp. : -40°C	1000 Hrs.	22 PCS.	0/1
6	DC Operating Life	$I_F = 20 \text{ mA}$	1000 Hrs.	22 PCS.	0/1
7	High Temperature / High Humidity	85°C / 85%RH	1000 Hrs.	22 PCS.	0/1

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Technical Data Sheet

Reverse Package Top View LEDs

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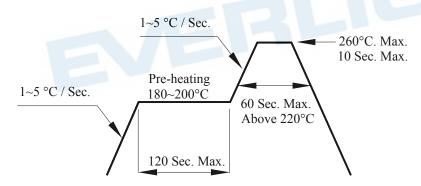
Precautions for Use

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°C or less and 90%RH or less.
- 2.3 After opening the package: The LED's floor life is 1 year under 30°C 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°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.

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Reverse Package Top View LEDs

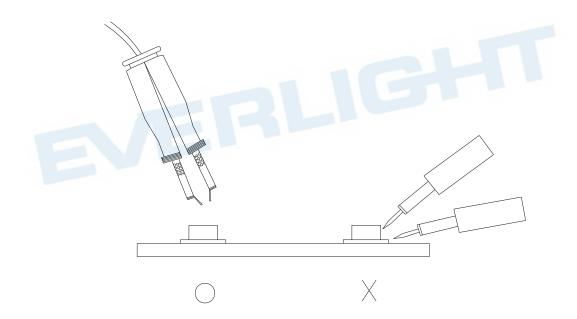
67-21UYC/S530-XX/TR10

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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DISCLAIMER

- EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification. 1.
- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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- This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or 6. life saving applications or any other application which can result in human injury or death. Please contact authorized Everlight sales agent for special application request.

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