

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Everlight Electronics Co Ltd 95-21UBC/C430/TR10

For any questions, you can email us directly: sales@integrated-circuit.com





EVERLIGHT EVERLIGHT ELECTRONICS CO.,LTD.

Technical Data Sheet

1.9mm Round Subminiature "Z-Bend" Lead (Square Base)LED

95-21UBC/C430/TR10

Features

- Package in 12mm tape on 7" diameter reels.
- Compatible with automatic placement equipment.
- EIA Std. package.
- Mono-color type.
- Pb-free
- The product itself will remain within RoHS compliant version

Descriptions

- The 95-21 SMD is much smaller than leaded components. Thus enable smaller board size. Higher packing density. Reduced storage space and finally smaller equipment to be obtained.
- Besides, light weight makes them ideal for miniature applications.
- Furthermore by automation assembly machines the accuracy is anticipated.

Applications

- Small indicator for indoor applications.
- Flat backlight for LCD, switches and symbols.
- Indicator and backlight in office equipment.
- Indicator and backlight for battery driven equipment.
- Indicator and backlight for audio and video equipment.
- Backlighting in dashboards and switches.
- Telecommunication: indicator and backlighting in telephone and fax.

Device Selection Guide

David Ni	Chip	E:44 - J. Cl	Desta Cala	
Part No.	Material	Emitted Color	Resin Color	
95-21UBC/C430/TR10	GaN/SiC	Blue	Water Clear	

Everlight Electronics Co., Ltd. Rev. 1 Page: 1 of 9 http://www.everlight.com

Device No.: SZDLE-952-Prepared by: YI JUN Prepared date:18-AUG-2008

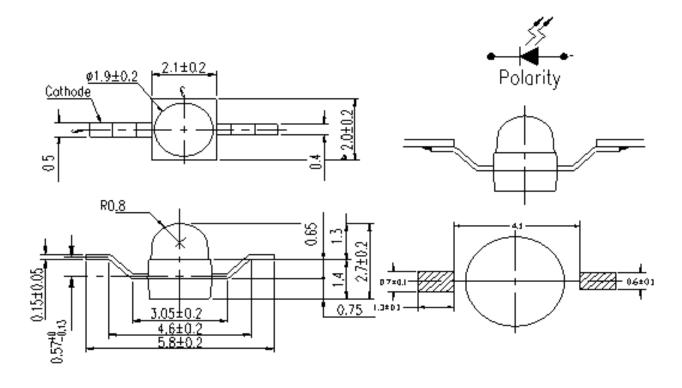






95-21UBC/C430/TR10

Package Outline Dimensions



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

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 2 of 9

Device No.: SZDLE-952- Prepared date:18-AUG-2008 Prepared by: YI JUN





95-21UBC/C430/TR10

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	IF	30	mA
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	70	mA
Power Dissipation	Pd	130	mW
Electrostatic Discharge(HBM)	ESD	1000	V
Operating Temperature	Topr	-40 ~ +85	$^{\circ}\!\mathbb{C}$
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.	

Electro-Optical Characteristics (Ta=25°C)

Device No.: SZDLE-952-

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition	
Luminous Intensity	Iv	160	203		mcd	-	
Viewing Angle	2 \theta 1/2		25		deg		
Peak Wavelength	λр		428		nm		
Dominant Wavelength	λd		466		nm	I _F =20mA	
Spectrum Radiation Bandwidth	Δλ		65		nm		
Forward Voltage	V_{F}		3.8	4.5	V		
Reverse Current	Ir			50	μ A	$V_R = 5V$	

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 3 of 9

Prepared date:18-AUG-2008

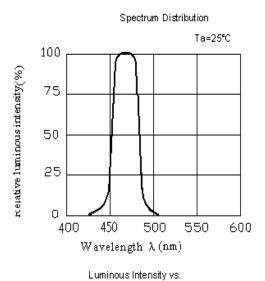
Prepared by: YI JUN

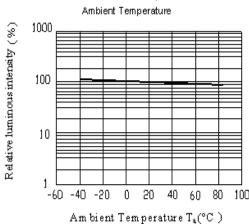


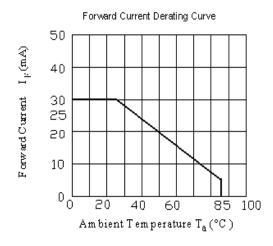


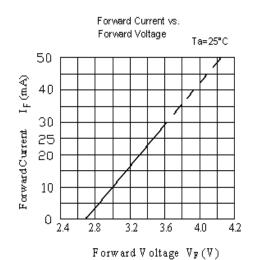
95-21UBC/C430/TR10

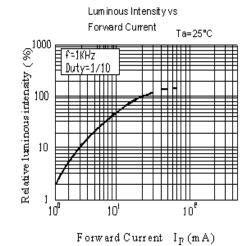
Typical Electro-Optical Characteristics Curves

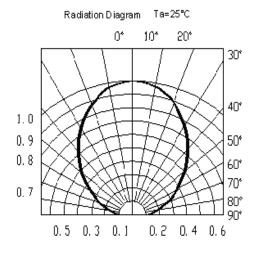












Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 4 of 9

Device No.: SZDLE-952- Prepared date:18-AUG-2008 Prepared by: YI JUN





95-21UBC/C430/TR10

Label explanation

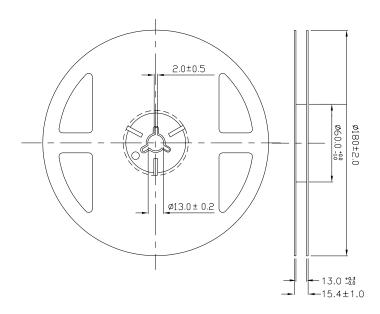
CAT: Luminous Intensity Rank

HUE: Dom. Wavelength Rank

REF: Forward Voltage Rank



Reel & Carrier Tape Dimensions



Note: The tolerances unless mentioned are ± 0.1 , unit=mm.

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 5 of 9

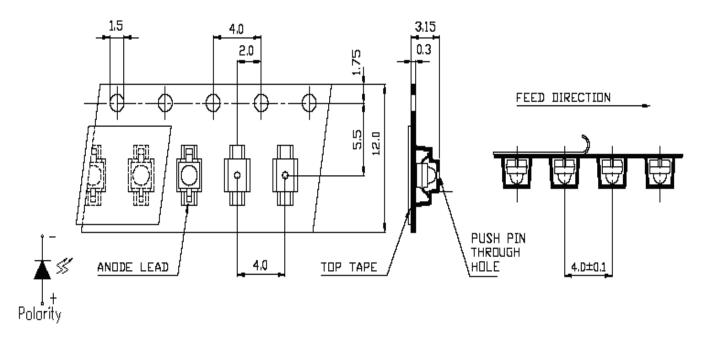
Device No.: SZDLE-952- Prepared date:18-AUG-2008 Prepared by: YI JUN





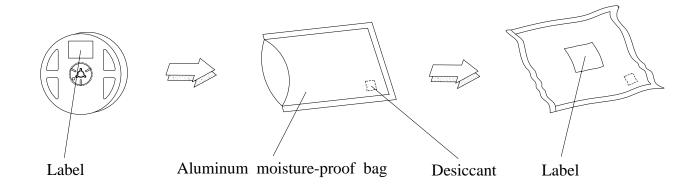
95-21UBC/C430/TR10

Loaded quantity per reel 1000 PCS/reel



Unit = mm

Moisture Resistant Packaging



 $Everlight\ Electronics\ Co.,\ Ltd.$

Device No.: SZDLE-952-

http://www.everlight.com Prepared date:18-AUG-2008 Rev. 1

Page: 6 of 9

Prepared by: YI JUN





95-21UBC/C430/TR10

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. 5 sec.	6 Min.	22 Pcs.	0/1
2	Temperature Cycle	$H: +100^{\circ}C$ 15 min. $\int 5 \text{ min.}$ $L: -40^{\circ}C$ 15 min.	300 Cycles	22 Pcs.	0/1
3	Thermal Shock	$H: +100^{\circ}\mathbb{C}$ 5 min. $\int 10 \text{ sec.}$ $L: -10^{\circ}\mathbb{C}$ 5 min.	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°€	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

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 7 of 9

Device No.: SZDLE-952- Prepared date:18-AUG-2008 Prepared by: YI JUN





95-21UBC/C430/TR10

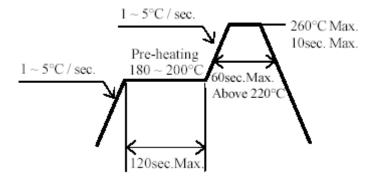
Precautions For Use

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.

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 8 of 9

Prepared by: YI JUN

Device No.: SZDLE-952- Prepared date:18-AUG-2008





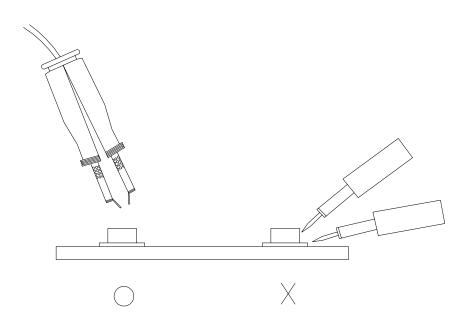
95-21UBC/C430/TR10

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.



EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd, Tucheng, Taipei 236, Taiwan, R.O.C Tel: 886-2-2267-2000, 2267-9936

Fax: 886-2267-6244, 2267-6189, 2267-6306

http://www.everlight.com

Everlight Electronics Co., Ltd. http://www.everlight.com Rev. 1 Page: 9 of 9

Device No.: SZDLE-952- Prepared date:18-AUG-2008 Prepared by: YI JUN