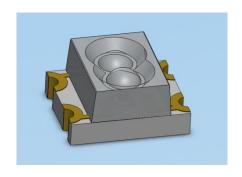


DATASHEET

SMD B

11-22SURSYGC/S530-A2/TR8



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 11-22 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.

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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	Chip	Emitted Color	Resin Color
Туре	Materials	Emitted Color	Resili Coloi
SUR	AlGalnP	Brilliant Red	Water Clear
SYG	AlGalnP	Brilliant Yellow Green	Water Clear

Absolute Maximum Ratings (Ta=25

Reverse Voltage V_R 5 V SUR : 25 Forward Current I_F 0.000×25 MA	
Forward Current I _□ mA	
SYG: 25	
Peak Forward Current SUR : 60	
I _{FP} mA (Duty 1/10 @1KHz) SYG:60	
SUR : 60	
Power Dissipation Pd syG: 60 mW	
Operating Temperature T_{opr} $-40 \sim +85$	
Storage Temperature Tstg -40 ~ +90	
Electrostatic Discharge ESD _{HBM} SUR: 2000 V	

Expired Period: Forever



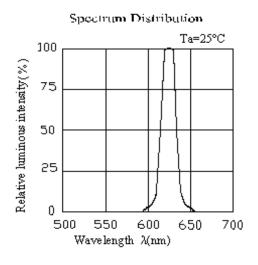
		SYG: 2000
Coldoring Tomporature	T_{sol}	Reflow Soldering : 260 for 10 sec.
Soldering Temperature		Hand Soldering: 350 for 3 sec.

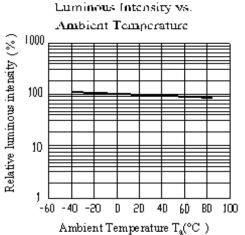
Electro-Optical Characteristics (Ta=25)

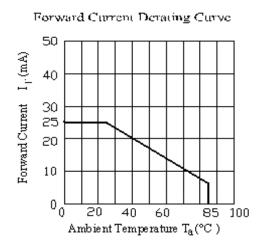
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Lucaina va Intanaitu	I	SUR : 21.0	51.0		mcd	
Luminous Intensity	lv	SYG: 14.0	21.0			
Viewing Angle	2θ _{1/2}		60		deg	
Dook Wayalangth	n	SUR :	632		nm	_
Peak Wavelength	р	SYG :	575			1 =20m A
Dominant Wayalanath	d	SUR:	624		nm	— I _F =20mA
Dominant Wavelength	u	SYG :	573			
Chartery Dadiation Bandwidth		SUR :	20	1	nm	
Spectrum Radiation Bandwidth		SYG :	20			
Converd Veltage	V	SUR: 1.70	2.00	2.40	V	
Forward Voltage	V_{F}	SYG: 1.70	2.00	2.40		
Davaras Current	1 122	SUR :	-	10	μА	V _R =5V
Reverse Current	I _R	SYG :		10		
		No.				

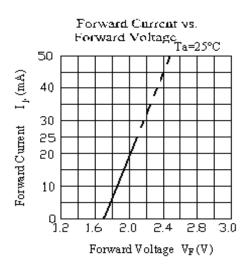
Typical Electro-Optical Characteristics Curves SUR

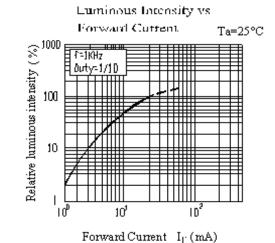
LifecyclePhase: Approved

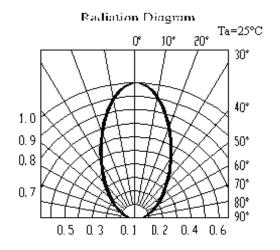




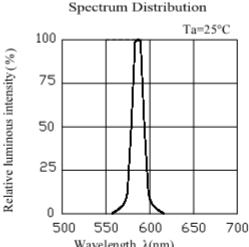


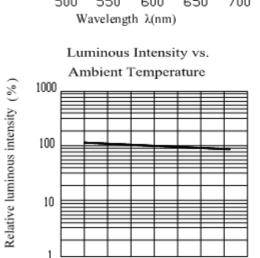






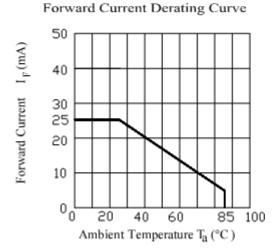
Typical Electro-Optical Characteristics Curves SYG

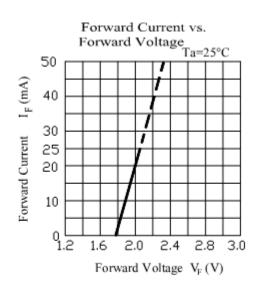


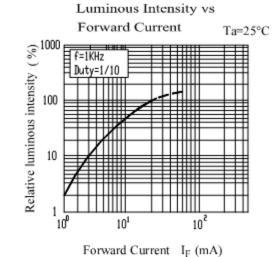


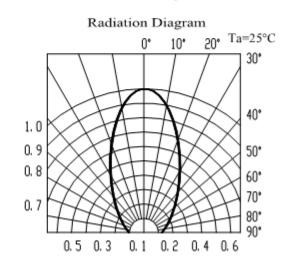
Ambient Temperature Ta(°C)

-60 -40 -20 0 20 40 60 80 100



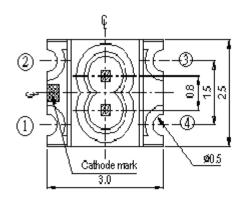


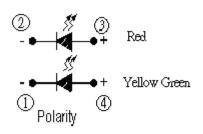


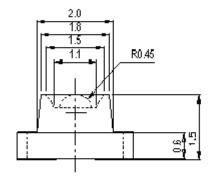




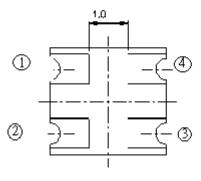
Package Outline Dimensions

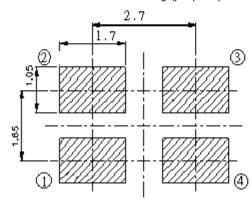












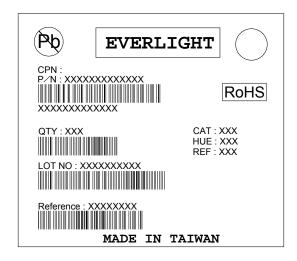
Suggested pad dimension is just for reference only. Please modify the pad dimension based on individual need.

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



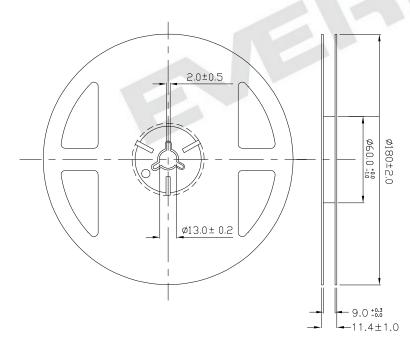
Moisture Resistant Packing Materials

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

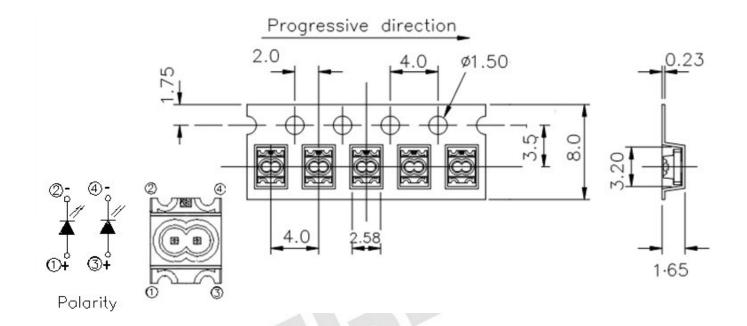
Reel Dimensions





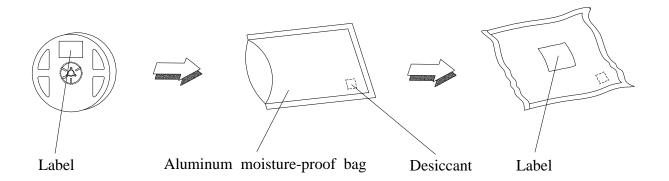
Note: The tolerances unless mentioned is ± 0.1 mm ,Unit = mm

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

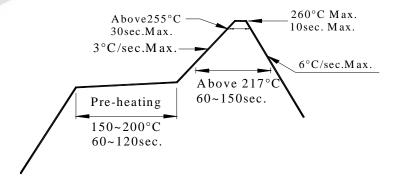
1. Over-current-proof

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 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.

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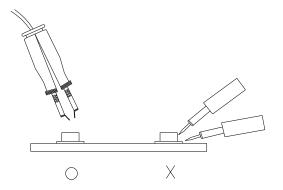


4. Soldering Iron

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.

Expired Period: Forever

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AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST008BGEW LTST-C250KGKT LTW-010DCG LTW-020ZDCG LTW-21TS5 LTW-220DS5 598-8330-117F SML-LX0402IC-TR

CMDA20AYAA7D1S CMDA16AYDR7A1X 91-21SYGD/S530-E2/TR7 HSMQ-C177 598-8040-100F 598-8070-100F 598-8140-100F 5988610-200F EAST2012GA0 EAPL3527GA5 SML-LXL1209SYC/ATR EAST2012RA0 EAST1608RGBA0 CMD91-21VRC/TR7 SMLLXR851SGSIC-TR SML-512PWT86A