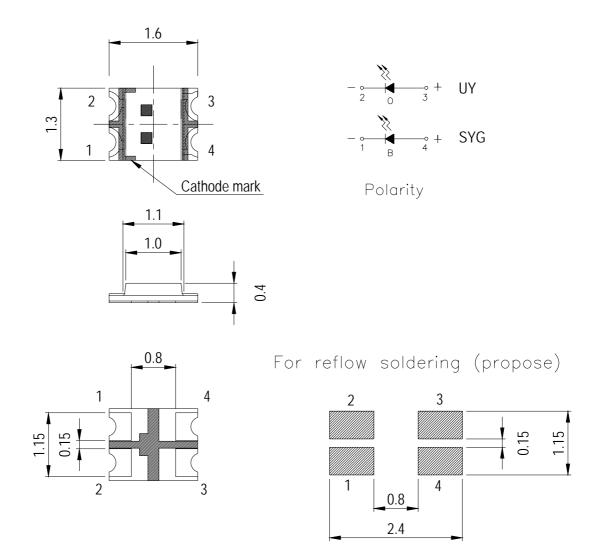
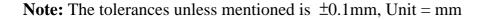
Package Outline Dimensions





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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	UY:25 SYG:25	mA
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +90	°C
Soldering Temperature	Tsol	260 (for 5 seconds)	°C
Electrostatic Discharge	ESD	UY:2000 SYG:2000	V
Power Dissipation	Pd	UY:60 SYG:60	mW
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	UY:60 SYG:60	mA

Electro-Optical Characteristics (Ta=25°C)

1			+	1		
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv UY	21	32		mcd	
	SYG	21	30			
Viewing Angle	2 0 1/2		130		deg	
Peak Wavelength	λp UY		591		nm	
	SYG		575			
Dominant Wavelength	λd uy		589			IF=20mA
	SYG		573		nm	
Spectrum Radiation Bandwidth	$ riangle \lambda$		20		nm	
Forward Voltage	VF UY		2.0	2.4 V 2.4 V		
	SYG		2.0		v	
Reverse Current	IR			10	μ A	V _R =5V

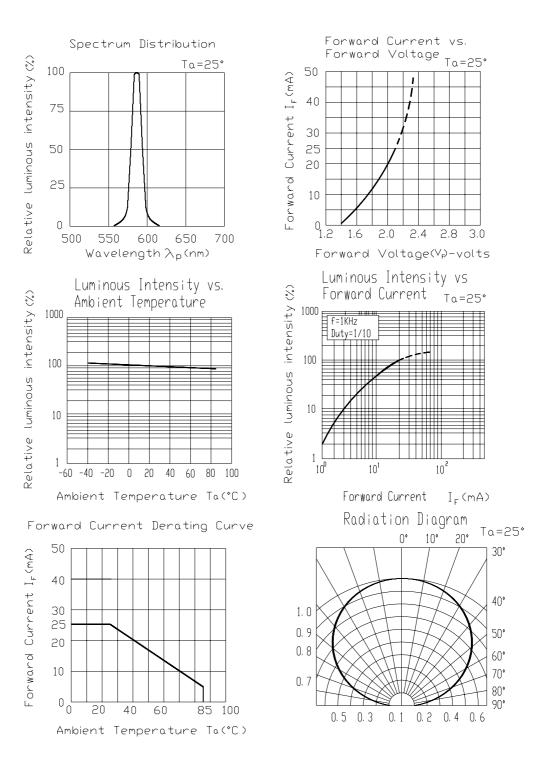
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19-226UYSYGC/S530-A3/E3/TR8

Typical Electro-Optical Characteristics Curves

UY

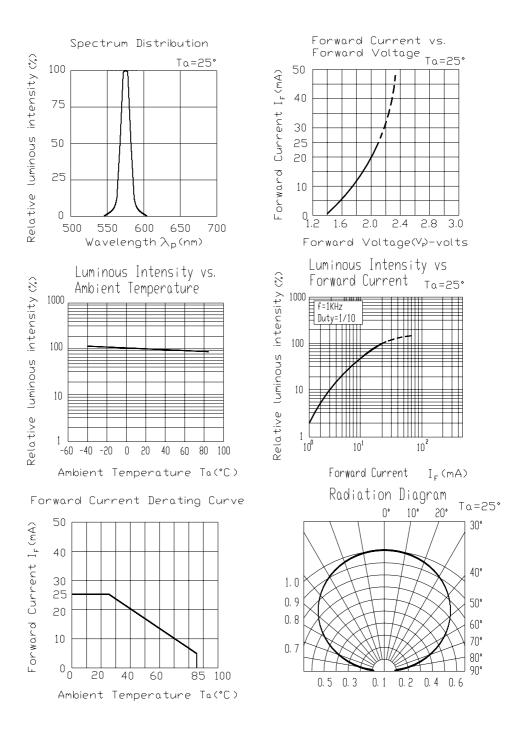
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Typical Electro-Optical Characteristics Curves

SYG



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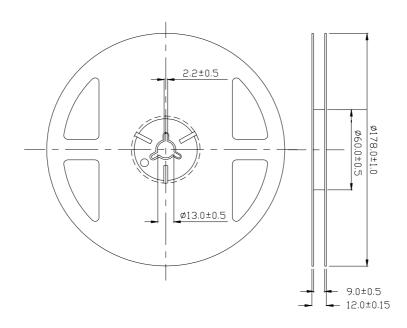
19-226UYSYGC/S530-A3/E3/TR8

Label explanation

- **CAT: Luminous Intensity Rank**
- HUE: Dom. Wavelength Rank
- **REF: Forward Voltage Rank**



Reel Dimensions

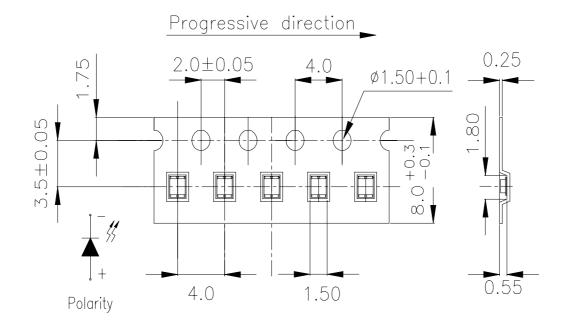


Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm

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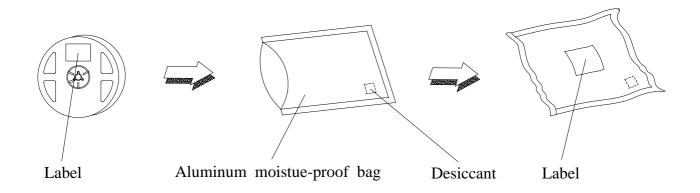
19-226UYSYGC/S530-A3/E3/TR8

Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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

Moisture Resistant Packaging



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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%

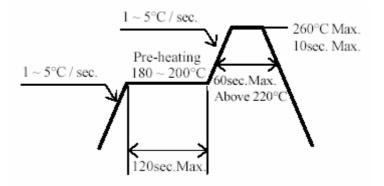
No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	Reflow Soldering	Temp. : 260°C ±5°C Min. 5sec.	6 Min.	22 PCS.	0/1
2	Temperature Cycle	H : +100°C 15min $\int 5 \text{ min}$ L : -40°C 15min	300 Cycles	22 PCS.	0/1
3	Thermal Shock	H: +100°C 5min $\int 10 \sec$ L: -10°C 5min	300 Cycles	22 PCS.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

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 The LEDs should be used within a year.
 - 2.4 After opening the package, the LEDs should be kept at 30° C or less and 70%RH or less.
 - 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
 - 2.6 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



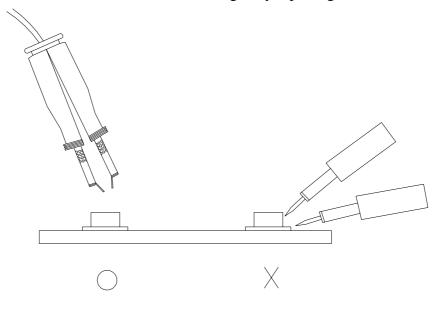
- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

4.Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280° 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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