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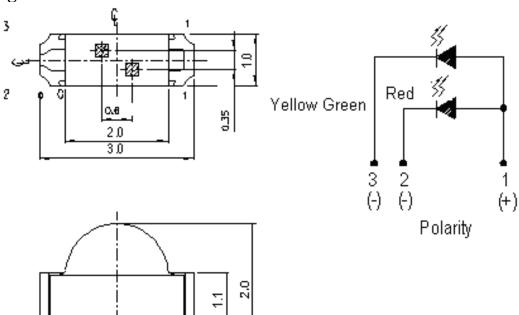
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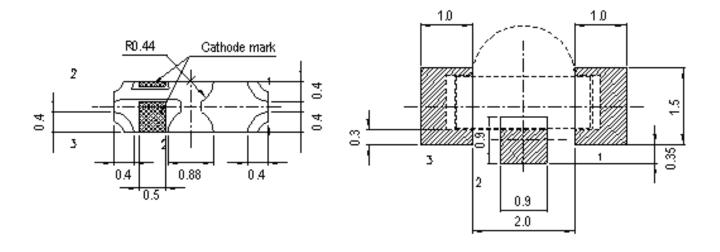
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12-22/G6R8C-A30/2C

Package Outline Dimensions



For reflow soldering (propose)



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

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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit	
Reverse Voltage	V_R	5	V	
Forward Current	т_	G6:25	4	
	IF	R8:25	mA	
Peak Forward Current	T	G6:60	A	
(Duty 1/10 @1KHz)	Ifp	R8:60	mA	
Power Dissipation	Pd	G6:60	mW	
		R8:60	111 VV	
Electrostatic Discharge(HBM)	ESD	G6:2000	V	
		R8:2000	V	
Operating Temperature	Topr	-40 ~ +85	$^{\circ}\!\mathbb{C}$	
Storage Temperature	Tstg	-40~ +90	$^{\circ}\!\mathbb{C}$	
		Reflow Soldering: 260 °C for 10 sec.		
Soldering Temperature	Tsol	Hand Soldering: 3	50 °C for 3 sec.	

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Sym	ıbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	G6	28.5		72.0	1	
		R8	28.5		72.0	mcd	
Viewing Angle	2 \theta 1/2			120		deg	
Peak Wavelength	Λp	G6		575		nm	I _F =20mA
		R8		650			
Dominant Wavelength	λd	G6		573		nm	
		R8		639			
Spectrum Radiation Bandwidth	Δλ	G6		20			
		R8		20		nm	
Forward Voltage	V_{F}	G6	1.7	2.0	2.4	V	
		R8	1.7	2.0	2.4	•	
Reverse Current	Ir	G6			10	μ A	V _R =5V
		R8			10		

Notes:

1.Tolerance of Luminous Intensity ±11%

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Bin Range Of Luminous Intensity

G6

Bin	Min	Max	Unit	Condition	
N	28.5	45.0	,	I _F =20mA	
P	45.0	72.0	mcd		

R8

Bin	Min	Max	Unit	Condition	
N	28.5	45.0	,	I _F =20mA	
P	45.0	72.0	mcd		

Notes:

1.Tolerance of Luminous Intensity ±11%

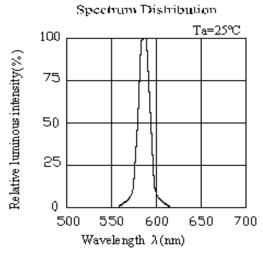
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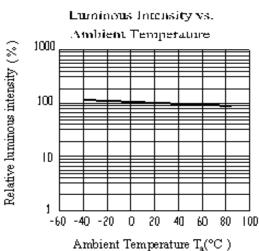


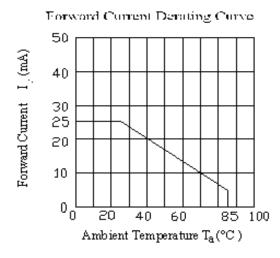
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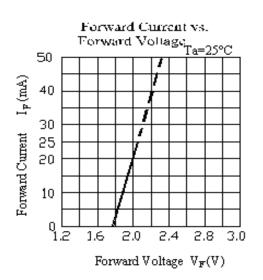
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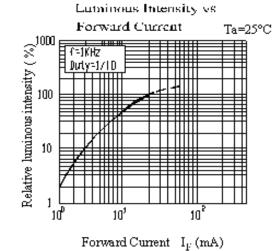
Typical Electro-Optical Characteristics Curves G6

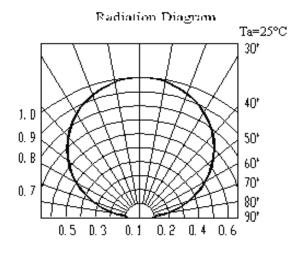












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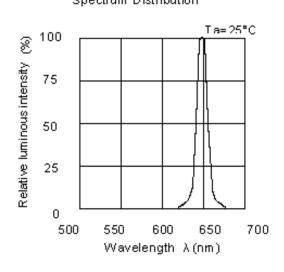


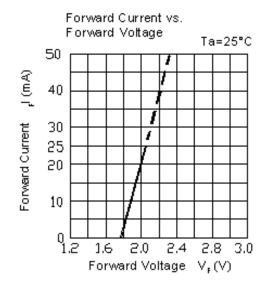
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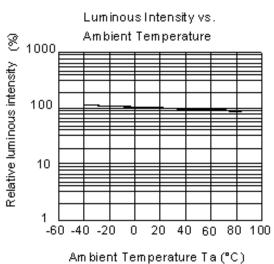
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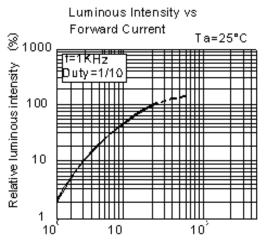
Typical Electro-Optical Characteristics Curves R8

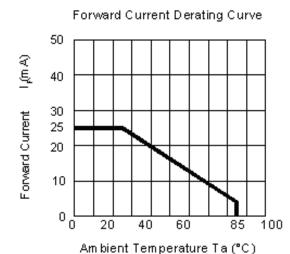


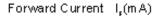


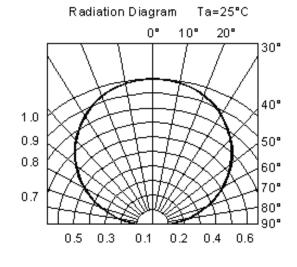












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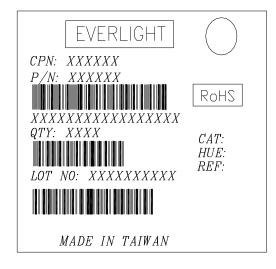


Label explanation

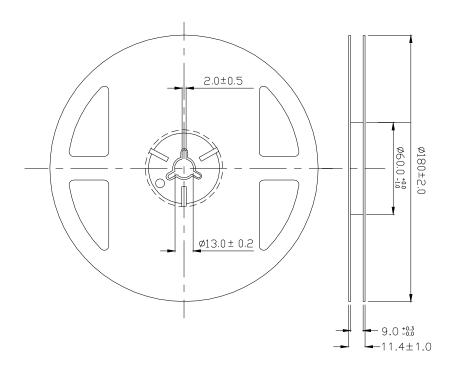
CAT: Luminous Intensity Rank

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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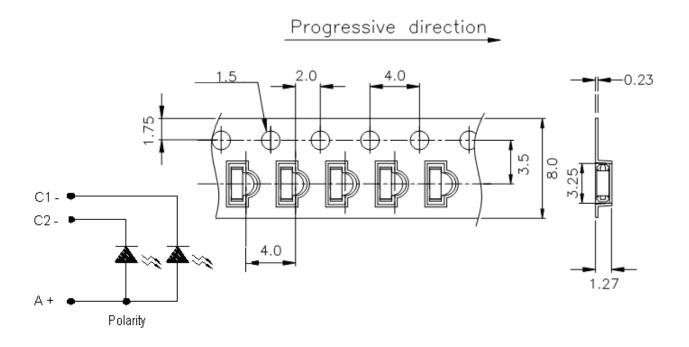
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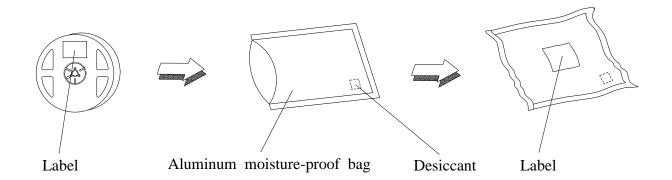


Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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	$H: +100^{\circ}\mathbb{C}$ 15min \int 5 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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Prepared by: LeiHui

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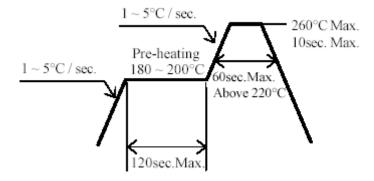
Device No: SZDSE-122-A24

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: $60\pm5^{\circ}$ 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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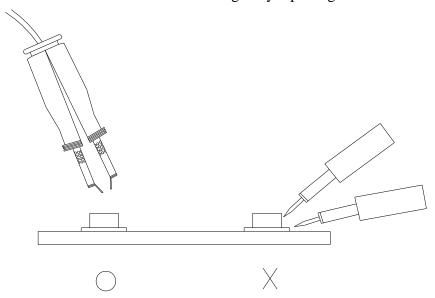


4. Soldering Iron

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

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