

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 complaint version

Descriptions

- The 11-21 SMD Taping is much smaller than lead frame type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature applications. etc.

Applications

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

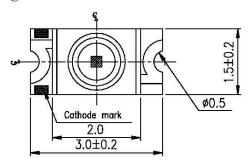
Device Selection Guide

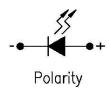
Part No.	,	I C.1	
	Material	Emitted Color	Lens Color
7010X5-A	AlGaInP	Brilliant Yellow Green	Water Clear

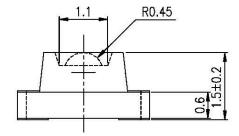




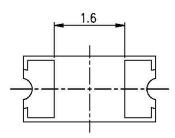
Package Outline Dimensions

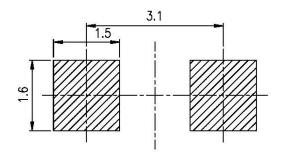






For reflow soldering (propose)





Notes: The tolerances unless mentioned are £1, unit=mm.





Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit	
Reverse Voltage	V_R	5	V	
Forward Current	$\mathbf{I}_{\mathbf{F}}$	25	mA	
Operating Temperature	Topr	-4 0 ∼ +85	C	
Storage Temperature	Tstg	-4 0 ~ +90	C	
Electrostatic Discharge	ESD	2000	V	
Power Dissipation	Pd	60	mW	
Peak Forward Current (Duty 1/10 @1KHz)	Ifp	60	mA	
Soldering Temperature	Tsol	Reflow Soldering: 260 °C for 10 sec. Hand Soldering: 350 °C for 3 sec.		

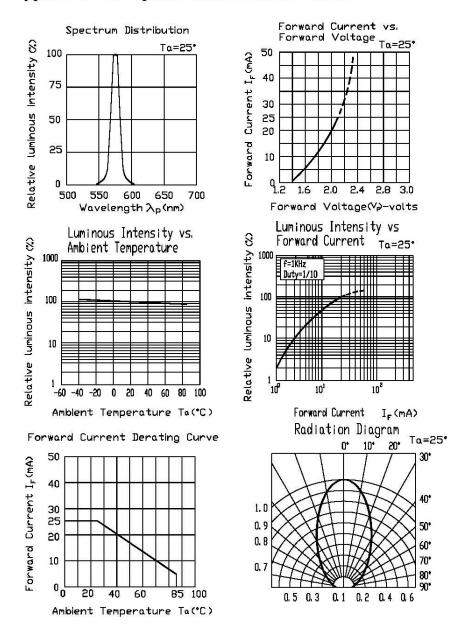
Electro-Optical Characteristics (Ta=25°C)

1			100 /			
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	39	52	[***	med	
Viewing Angle	2 0 1/2		60		deg	
Peak Wavelength	λ_p		575		nm	
Dominant Wavelength	λd		573		nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ		20		nm	
Forward Voltage	V_{F}	1.7	2.0	2.4	V	
Reverse Current	I_R			10	μΑ	$V_R=5V$





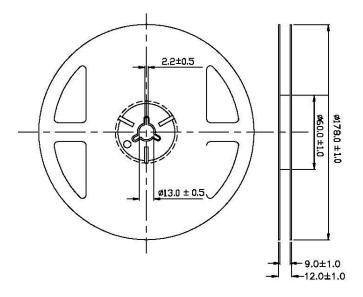
Typical Electro-Optical Characteristics Curves







Reel Dimensions

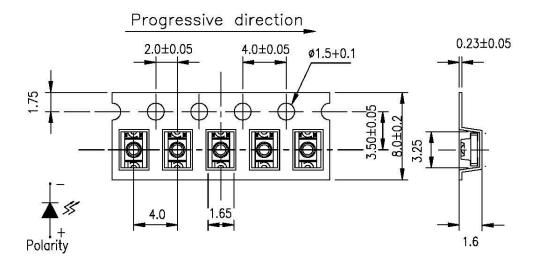


Note: The tolerances unless mentioned are ± 0.1 , Unit = mm.



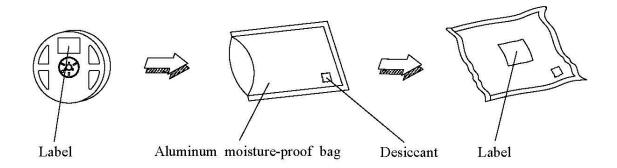


Carrier Tape Dimensions: Loaded quantity 2000 PCS per reel



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

Moisture Resistant Packaging







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 ∫ 5 min L: -40°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℃	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℃/ 85%RH	1000 Hrs.	22 PCS.	0/1

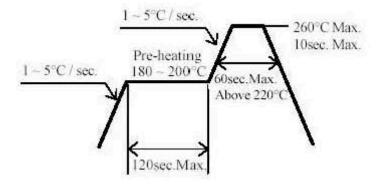




Precautions For Use

- 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.
- 2.2B efore 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. (To fit the MSL-2.)
- 2.4 After opening the package, the LEDs should be kept at 30 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.



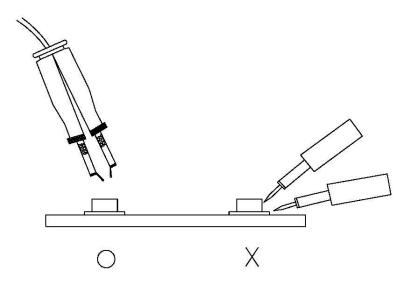


4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 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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EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC

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