L3T2GC-L1
1206 SMD LED GREEN

Features:

1. Package in 8.0mm carrier tape on 7" diameter reel.

2. Compatible with automatic placement equipment.

3. Compatible with reflow solder process.

Descriptions:

1. The L3T2GC-LI 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.

2. Besides, lightweight makes them ideal for miniature applications. etc.

Applications:

1. Automotive : backlighting in dashboard and switch.

2. Telecommunication : indicator and backlighting in telephone and fax.

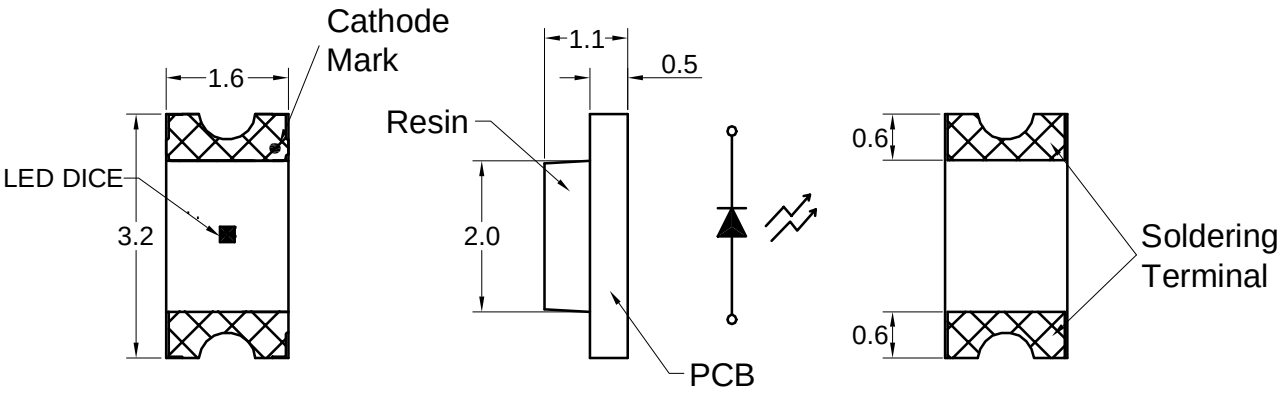
3. Flat backlight for LCD, switch and symbol

4. General use.

Device Selection Guide:

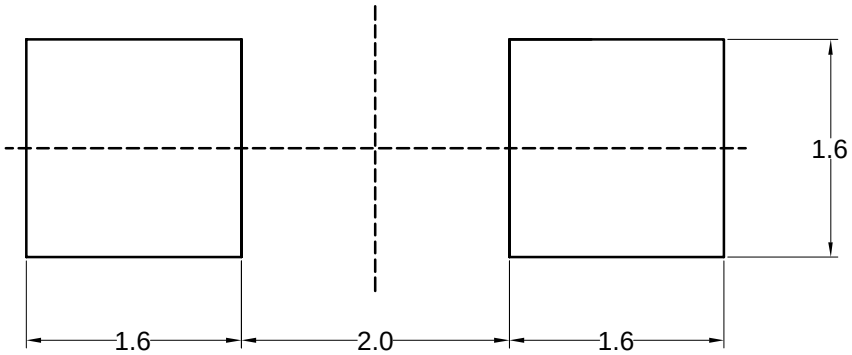
PART NO	MATERIAL	COLOR	
		Emitted	Lens
L3T2GC-LI	GaP	Green	Water Clear

Package Dimensions



Note : 1.All dimension are in millimeter tolerance is ±0.1mm unless otherwise noted.
2.Specifications are subject to change without notice.

Recommended Soldering Pad Dimensions



Note : The tolerances unless mentioned is ±0.1mm,Angle±0.5. Unit=mm.

Absolute Maximum Ratings at Ta=25 ℃

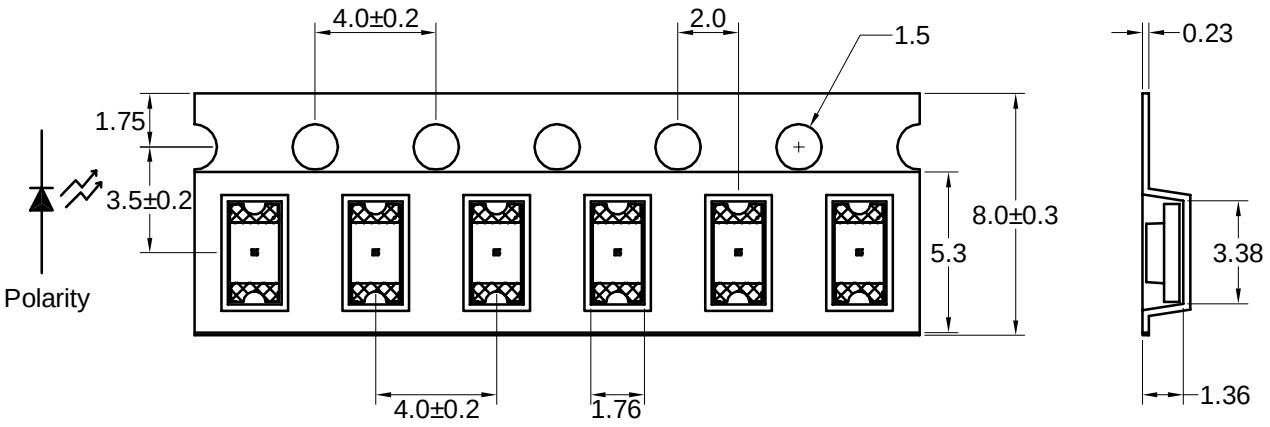
Parameter	Symbol	Ratings	**UNIT**
Power Dissipation	PD	65	mW
Peak Forward Current Duty 1/10@10KHz	I_{FP}	120	mA
Forward Current	I_F	25	mA
Reverse Current @5V	Ir	10	μA
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +90	℃
Soldering Temperature	Tsol	Max 260℃ for 5 sec Max	

Typical Electrical & Optical Characteristics (Ta=25 ℃)

Items	Symbol	Min.	Typ.	Max.	UNIT	CONDITION
Luminous Intensity	Iv	5.0	12.5	----	mcd	IF=20mA
Peak Wavelength	λP	----	565	----	nm	IF=20mA
Dominant Wavelength	λD	----	573	----	nm	IF=20mA
Spectral Line Half-Width	△λ	----	30	----	nm	IF=20mA
Forward Voltage	V_F	1.7	----	2.6	V	IF=20mA
Viewing Angle	2θ 1/2	----	140	----	deg	IF=20mA

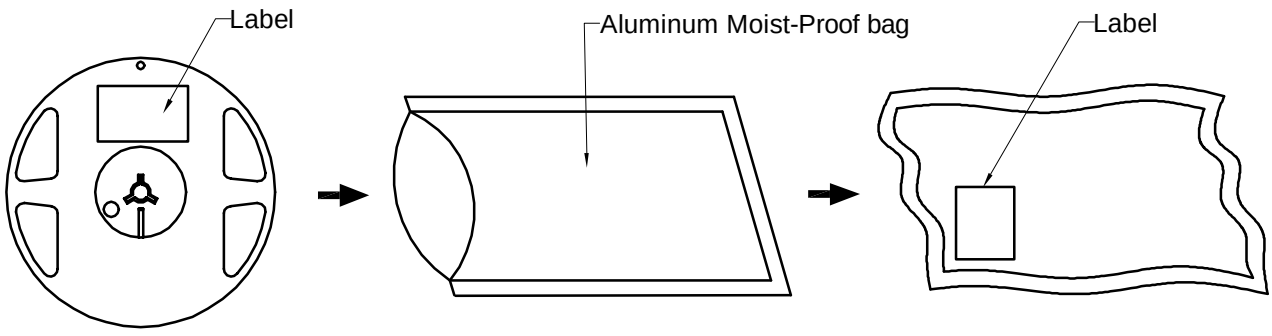
Note : 1.The forward voltage data did not including ±0.1V testing tolerance.
2. The luminous intensity data did not including ±15% testing tolerance.

Carrier Type Dimensions



Note : The tolerances unless mentioned is ±0.1mm,Angle ± 0.5. Unit=mm.

- Packing Specifications



Part No.	Description	Quantity/Reel
L3T2GC-LI	8.0mm tape,7"reel	3000 devices

Reliability Test:

Classification	Test Item	Test Condition	Reference Standard
Endurance Test	Operating Life Test	1.Ta=Under Room Temperature As Per Data Sheet Maximum Rating. 2.If=20mA 3.t=1000 hrs (-24hrs, +72hrs)	MIL-STD-750D: 1026 MIL-STD-883D: 1005 JIS C 7021: B-1
	High Temperature Storage Test	1.Ta=105℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	MIL-STD-883D:1008 JIS C 7021: B-10
	Low Temperature Storage Test	1.Ta=-40℃±5℃ 2.t=1000 hrs (-24hrs, +72hrs)	JIS C 7021: B-12
	High Temperature High Humidity Storage Test	1.Ta=65℃±5℃ 2.RH=90％~95％ 3.t=1000hrs ±2hrs	MIL-STD-202F:103B JIS C 7021: B-11
Environmental Test	Thermal Shock Test	1.Ta=105℃±5℃&-40℃±5℃ (10min) (10min) 2.total 10 cycles	MIL-STD-202F: 107D MIL-STD-750D: 1051 MIL-STD-883D: 1011
	Solderability Test	1.T.Sol=235℃±5℃ 2.Immersion time 2 ±0.5sec 3.Coverage ≧95% of the dipped surface	MIL-STD-202F: 208D MIL-STD-750D: 2026 MIL-STD-883D: 2003 IEC 68 Part 2-20 JIS C 7021: A-2
	Temperature Cycling	1.105℃ ~ 25℃ ~ -55℃ ~ 25℃ 30mins 5mins 30mins 5mins 2.10 Cyeles	MIL-STD-202F: 107D MIL-STD-750D: 1051 MIL-STD-883D: 1010 JIS C 7021: A-4
	IR Reflow	1.T=260°C Max. 10sec.Max. 2. 6 Min	MIL-STD-750D:2031.2 J-STD-020