



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 LG-110 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.
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
LG-110G-CT	GaP	Green	Water Clear



Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Ratings	UNIT
Power Dissipation	PD	100	mW
Peak Forward Current Duty 1/10@10KHz	IFP	120	mA
Forward Current	IF	30	mA
Reverse Current @5V	Ir	10	μA
Electrostatic Discharge	ESD	2000	V
Operating Temperature	T _{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +90	°C
Soldering Temperature	T _{sol}	Max 260°C for 5 sec Max	

Typical Electrical & Optical Characteristics (Ta=25°C)

Items	Symbol	Min.	Typ.	Max.	UNIT	CONDITION
Luminous Intensity	I _v	5.0	10	----	mcd	IF=20mA
Dominant Wavelength	λ_D	----	573	----	nm	IF=20mA
Spectral Line Half-Width	$\Delta \lambda$	----	30	----	nm	IF=20mA
Forward Voltage	V _F	1.7	----	2.6	V	IF=20mA
Viewing Angle	2 θ 1/2	----	150	----	deg	IF=20mA



Typical Electro-Optical Characteristics Curve

G CHIP

Fig.1 Forward current vs. Forward Voltage

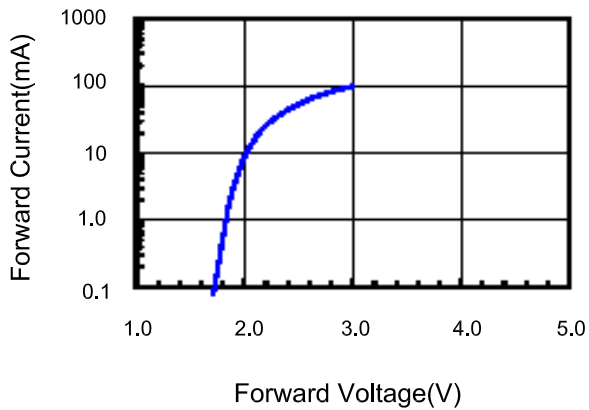


Fig.2 Relative Intensity vs. Forward Current

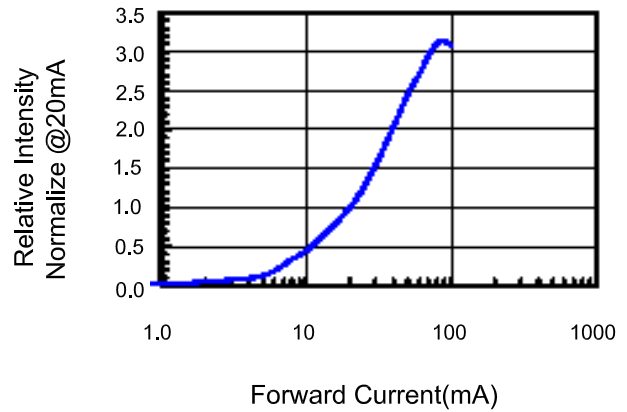


Fig.3 Forward Voltage vs. Temperature

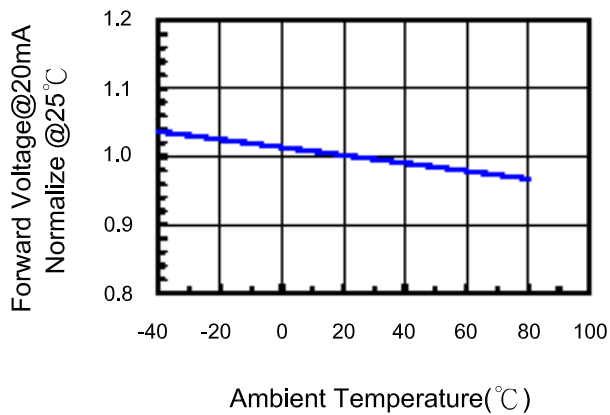


Fig.4 Relative Intensity vs. Temperature

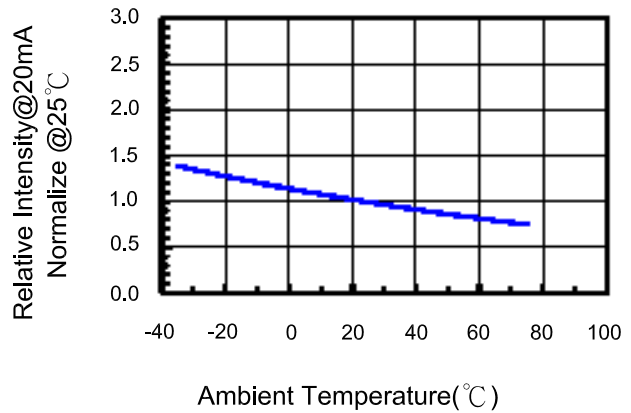


Fig.5 Relative Intensity vs. Wavelength

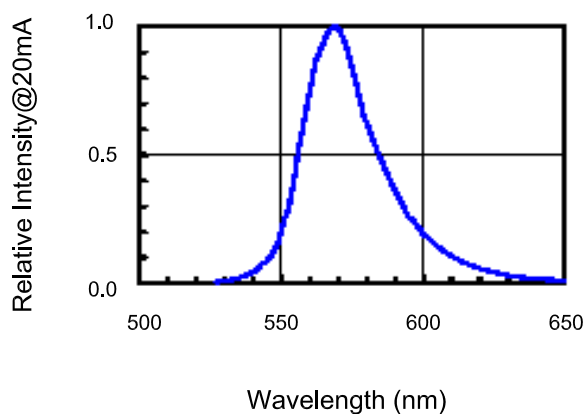
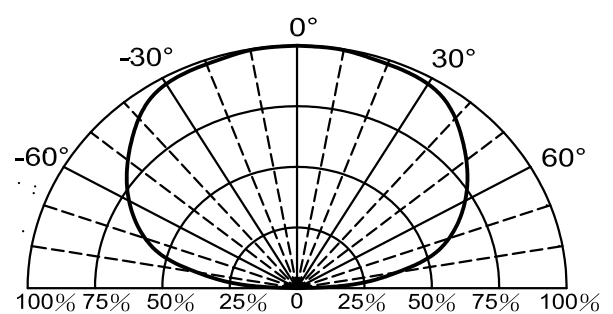
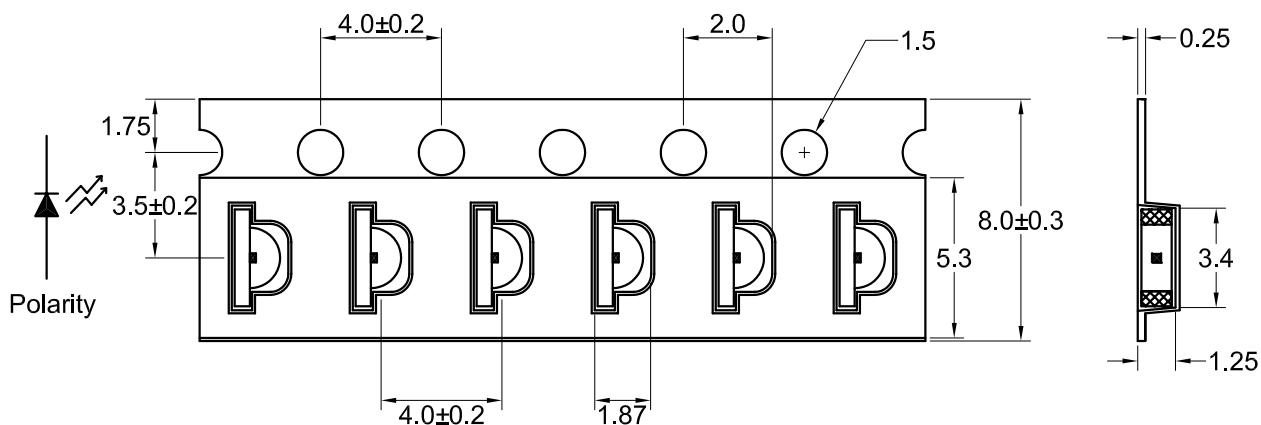


Fig.6 Directive Radiation



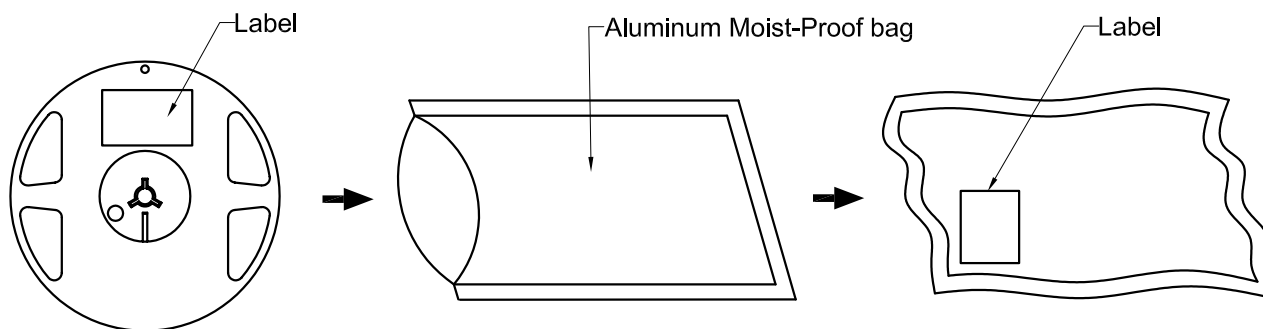


Carrier Type Dimensions



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

• Packing Specifications

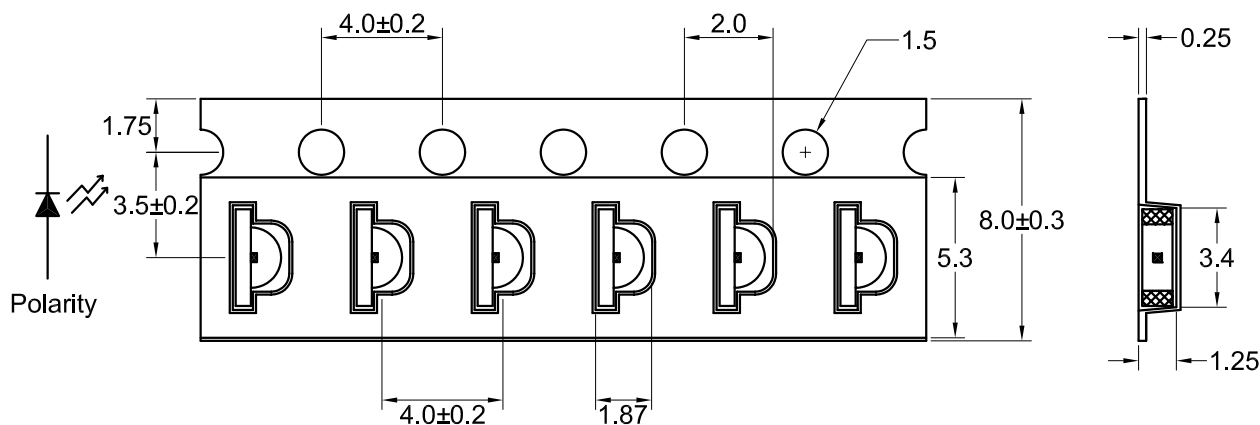


Part No.	Description	Quantity/Reel
LG-110G-CT	8.0mm tape, 7" reel	3000 devices

PART NO. LG-110G-CT

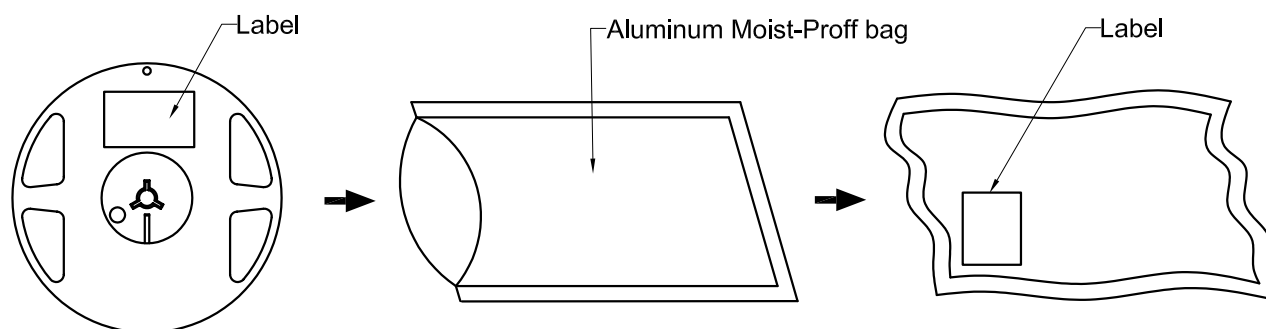
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