SPECIFICATION FOR LED LAMP

P/N : LY554CAN

Approved Sheet

Designed by	Qualified by	Approved by Customer

LY554CAN

Spec. No. : GT-0210-09-091

Features

- Standard T-1 3/4 package
- General purpose leads
- Viewing Angle : 15°

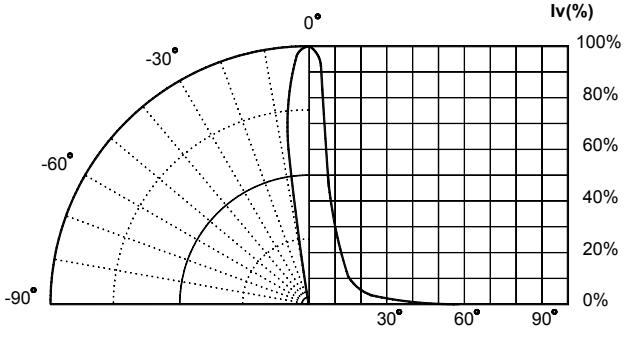
LED Picture

Benefits

- High intensity
- Lower Power Consumption
- High Reliability and Firm and Solid
- Optimal Optical and Mechanical Design

Applications

- Electronic Signs and Signals
- Small Area Illumination
- General Purpose Indicators
- Legend Backlighting



Beam Pattern

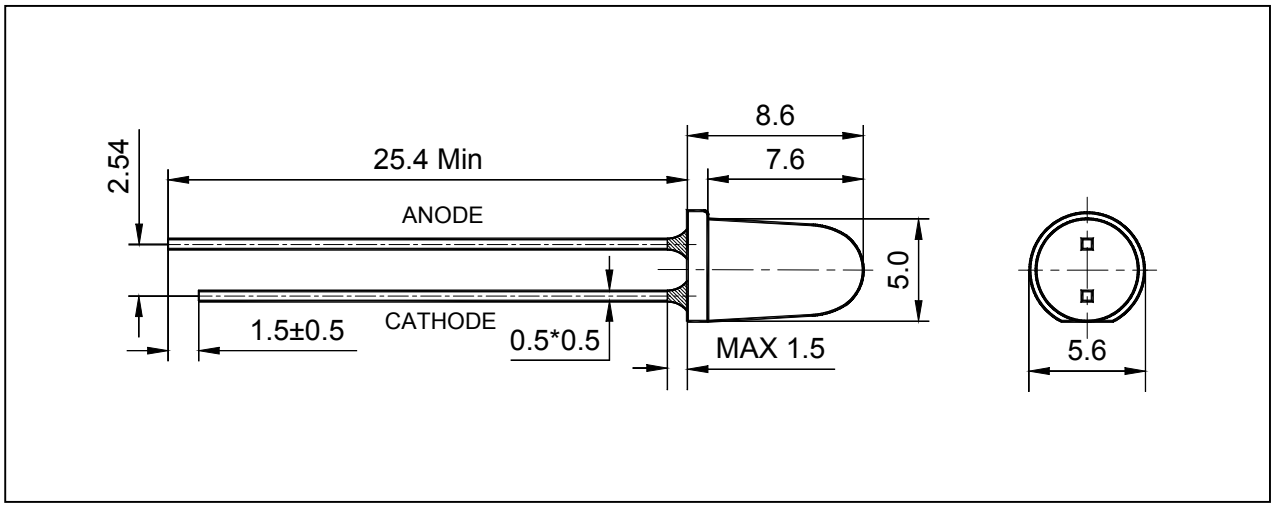
Description

- The T-1 3/4 lamps are untinged, nondiffused ., The precise optical design takes fine or special radiant pattern. This characteristic provides suitable viewing angle and helpful for special lighting function.

Device Selection Guide

Part Number	Viewing Angle	Resin Color	LED Color	Chip Material	Stand OFF
LY554CAN	15°	Water Clear	Yellow	AlGaInP/GaAs	No

Package Dimensions



Notes: 1. All dimensions are in millimeters

2. Tolerance is ±0.20mm unless otherwise noted.

3. Protruded resin under flange is 1.5mm max.

4. Lead spacing is measured where the leads emerge from the package.

5. Specifications are subject to change without notice.

Absolute Maximum Rating at Ta=25℃

Parameter	Value	Units
Power Dissipation	150	mW
Peak Forward Current(1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Forward Current	50	mA
Reverse Voltage	25	V
Operating Temperature Range	-40℃ to + 80℃	
Storage Temperature Range	-55℃ to + 100℃	
Lead Soldering Temperature(3mm From Body)	260℃ for 5 Seconds	

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
Luminous Intensity	Iv	1700	----	----	mcd	I_f=20mA
Viewing Angle	2θ1/2	----	15	----	Deg.	I_f=20mA
Dominant Wavelength	λ_d	----	590	----	nm	I_f=20mA
Forward Voltage	V_f	----	2.0	2.4	V	I_f=20mA
Reverse Current	I_r	----	----	100	μA	V_r=10V

Note: 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity, $2\theta_{1/2} = \theta_{1/2} + \theta_{1/2}$.

Bin Ranks

Rank	L	M	N
Luminous Intensity (I_f = 20mA)	1700~2200 mcd	2200~2800 mcd	2800~3600 mcd
Rank	**P**	**Q**	**R**
Luminous Intensity (I_f = 20mA)	3600~4700 mcd	4700~6100 mcd	6100~8000 mcd

Rank	Y3	Y4	Y5	Y6	Y7
Wavelength Specification (I_f = 20mA)	584~586nm	586~588nm	588~590nm	590~592nm	592~594nm

Note: The quantity ratio of the ranks is decided by GVOPTO.

Measurement Uncertainty of the Luminous intensity : ±15%

Measurement Uncertainty of the Forward Voltage : ±0.1V

Measurement Uncertainty of the Dominant Wavelength : ±1.0nm

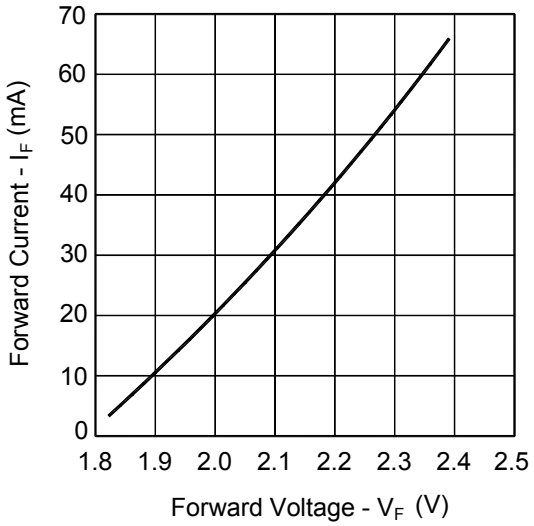
Cautions on LED Usage

1. Static electricity and surge will damage the LEDs. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
2. Use grounded soldering iron and do not solder the LEDs at the conditions beyond the absolute maximum ratings specified in the data sheet.
3. G.V. will not be held responsible for any damage caused by the operation exceeds the absolute maximum ratings.
4. Use the LEDs as soon as possible once the bag was opened. Store and use where there is no corrosive gas. The leads of LEDs will be rusty when the LEDs were exposed to the air for longer than one month.

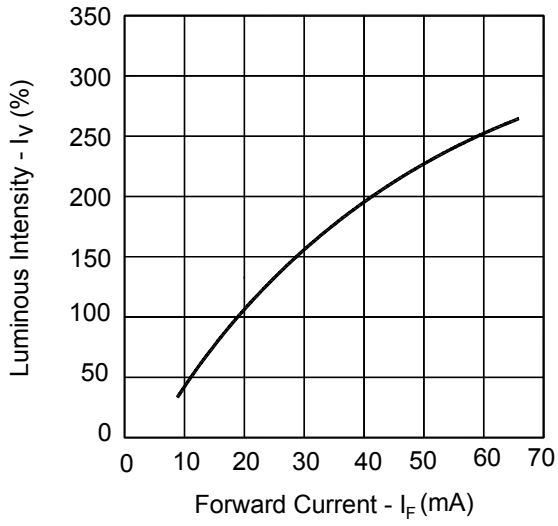
Typical Electrical / Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

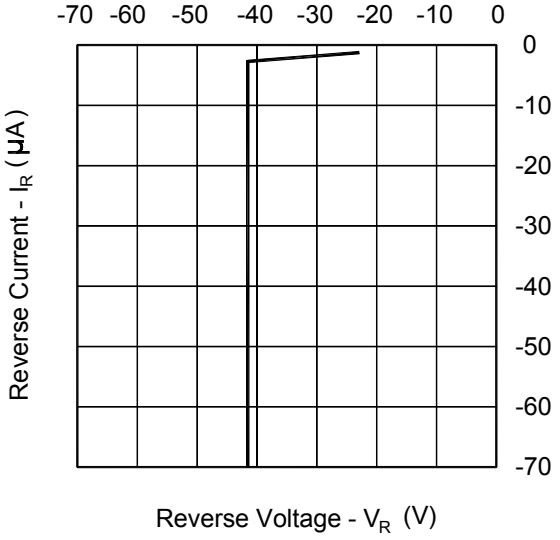
I_F vs. V_F



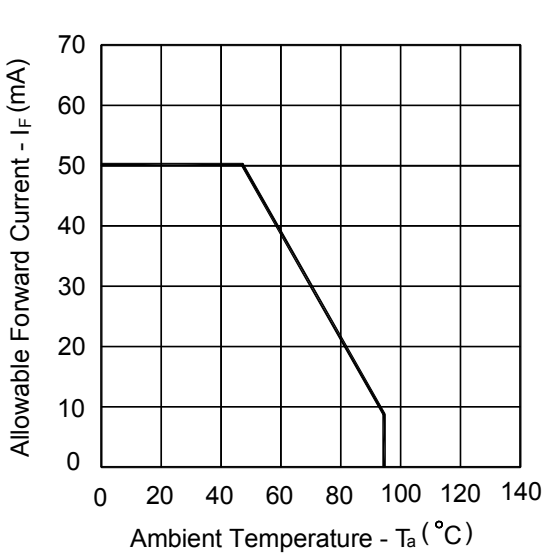
I_V vs. I_F



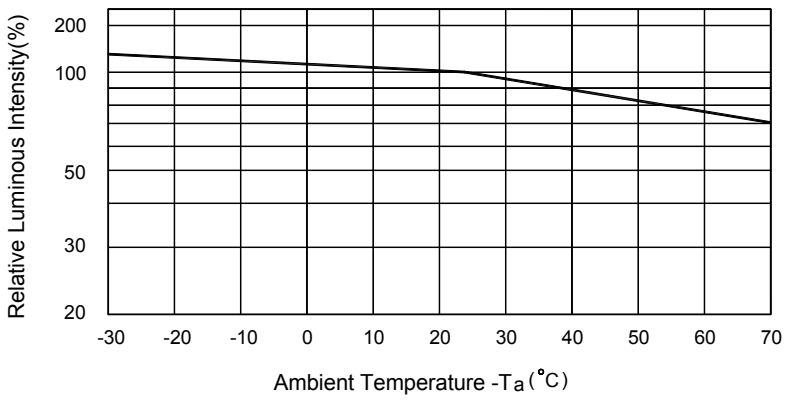
I_R vs. V_R



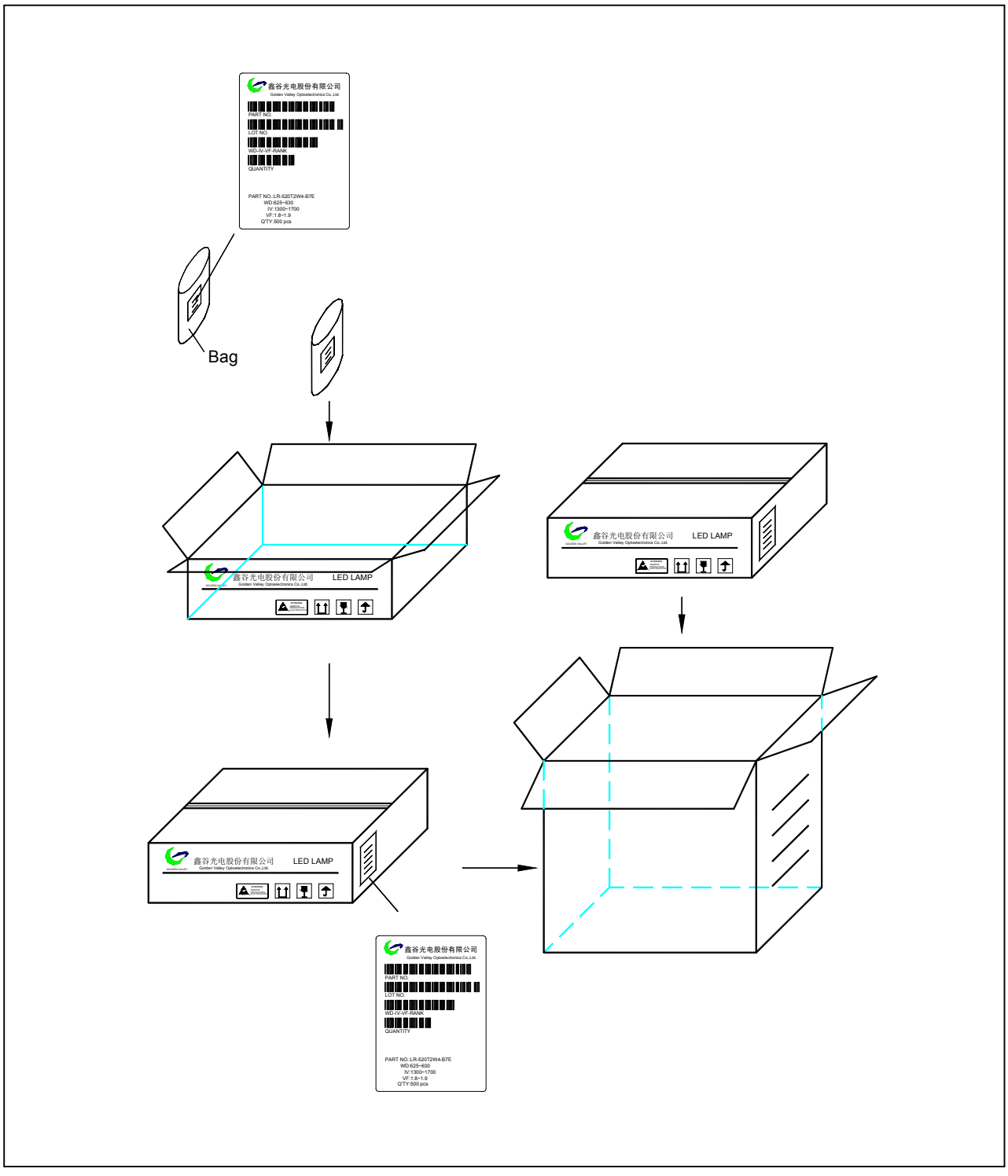
I_F vs. T_A



Relative Luminous Intensity vs. Ta



Packing Specification



Notes :

1. Inner ploy bag is common products
2. 20 bags per inner box, 20 kpcs per inner box .
3. 3 inner box per outer box, 60 kpcs per outer box