



SPECIFICATION

ITEM	LED LAMPS SERIES
Model No.	MT-333YGUC
Sample Code.	Nil
Date.	25 July 2007
Customer.	Yebo Electronic
Customer Part-no.	Nil
Version.	Rev.0

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Customer Approval

Approved by	Approved by	Approved by

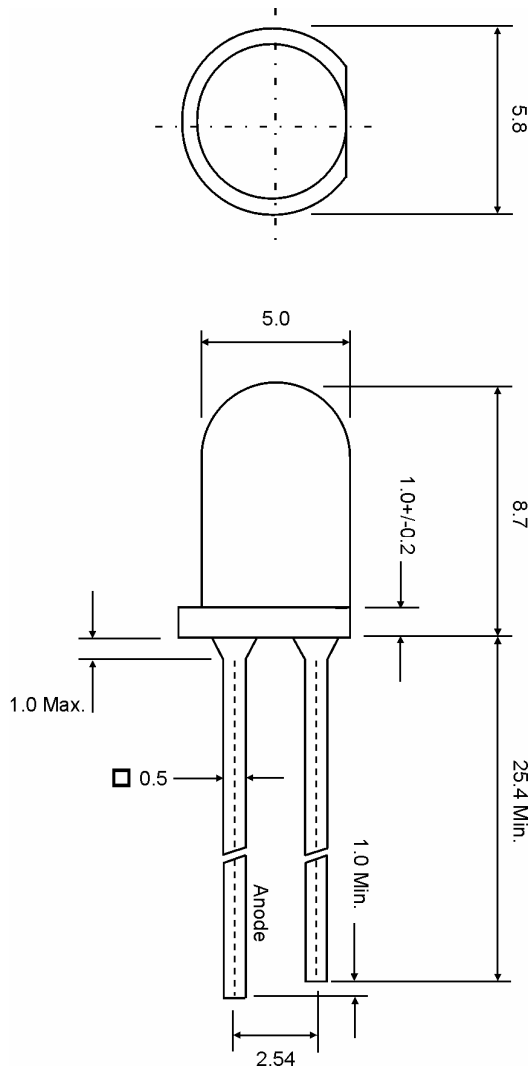
Microtec Approval

Drawn by	Checked by	Approved by

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Package Dimensions



Characters

- Led 5mm Round
- Reliable and Rugged
- Low Power Consumption
- Low Working Current

Functions

- Power Indicator
- Back-Lighting
- Lighting Guide

Notes

- All Dimensions are in millimeters
- Tolerance is +/- 0.25mm unless otherwise noted
- Protruded resin under flange is 1.0mm max.
- Lead measured where the leads emerge from the package
- ESD Class (Mil-Std-883d Method 3015.7) based on

Human Body Mode : -2000V (Ave.)

Chip Material	Emitting Color	Lens Color
AlGaInP	Ultra Green	Water Clear



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	2000		3000	mcd	I _F = 20mA
Viewing Angle *	2θ 1/2		20		Deg.	
Dominant Wavelength	λ _d		570		nm	
Spectrum Radiation Bandwidth	Δλ		25		nm	
Forward Voltage	V _F	1.8	2.0	2.4	V	
Recommended Working Current	R _{IF}	5	20	25	mA	

* Viewing Angle is defined as the off-axis angle where the Luminous Intensity is 1/2 the peak intensity.

Absolute Maximum Ratings (Ta=25°C)

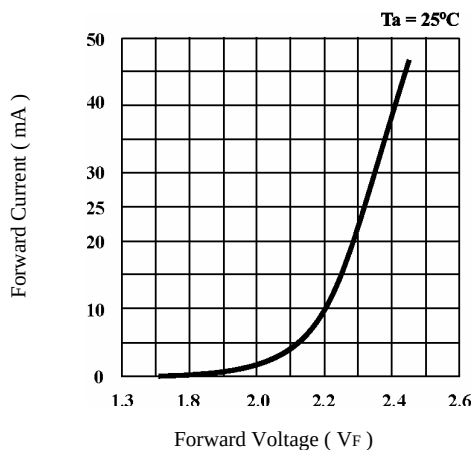
Parameter	Symbol	Max.	Unit
Power Dissipation	P _D	100	mW
DC Forward Current	I _F	30	mA
Peak Forward Current #	I _{PF}	120	mA
Reverse Voltage	V _R	5	V
Reverse Current	I _R	10	uA
Operation Temperature Range	T _{opr}	+ 80 ~ - 30	Deg.
Storage Temperature Range	T _{stg}	+ 100 ~ - 40	Deg.
Soldering Temperature Range *	T _{sol}	260°C for 5 Seconds	Deg.

Duty Ratio = 1/16 , Pulse width = 0.1ms

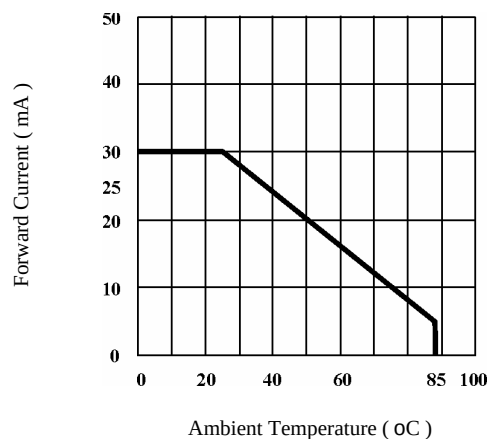
* Lead Soldering Temperature Range (1.6mm from LED Body)

Typical Electro-Optical Characteristics Curves

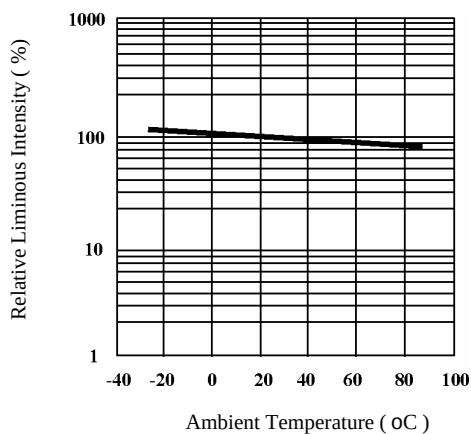
Forward Current VS Forward Voltage



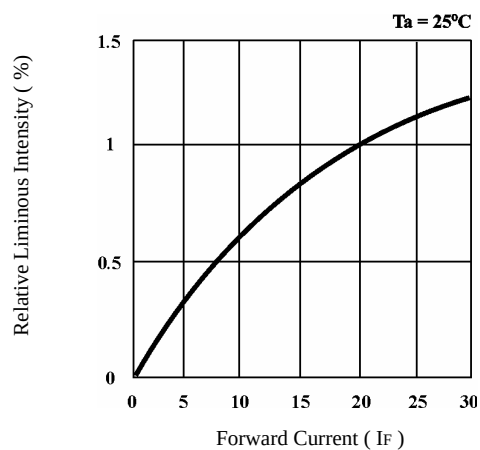
Forward Current VS Ambient Temperature



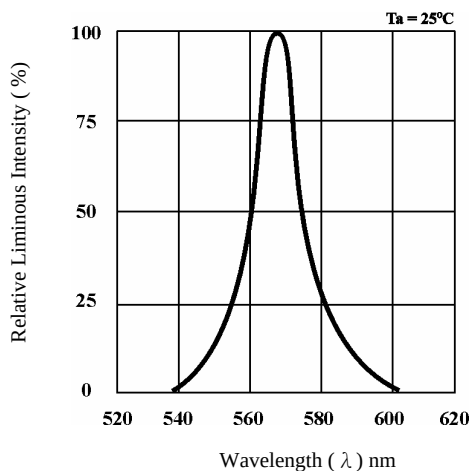
Luminous Intensity VS Ambient Temperature



Luminous Intensity VS Forward Current



Spectrum Distribution



Viewing Angle Diagram

