



# TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.

Tel : (852) 2540 7288

<http://www.toyo-led.com>

Fax : (852) 2517 1797

E-mail : [sales@toyo-led.com](mailto:sales@toyo-led.com)



P/N:D11571-N-UG-0-W

Dot-Matrix Series

# SPECIFICATION FOR CUSTOMER APPROVAL

## P/N: D11571-N-UG-0-W

DATE : 2011-9-1

PREPARED BY : Candy H

CONFIRMED BY : Andy Man

**LEASE CONFIRM & SIGN BACK THIS SHEET TO US**

CUSTOMER: 00268-U APPROVAL BY: \_\_\_\_\_

(COMPANY CHOP)

(SIGNATURE)



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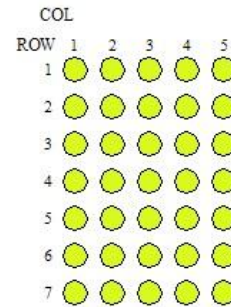
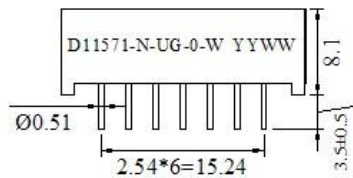
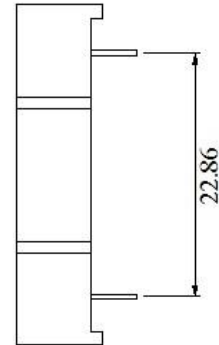
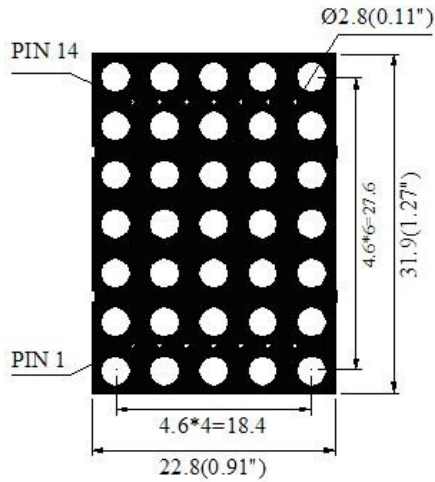
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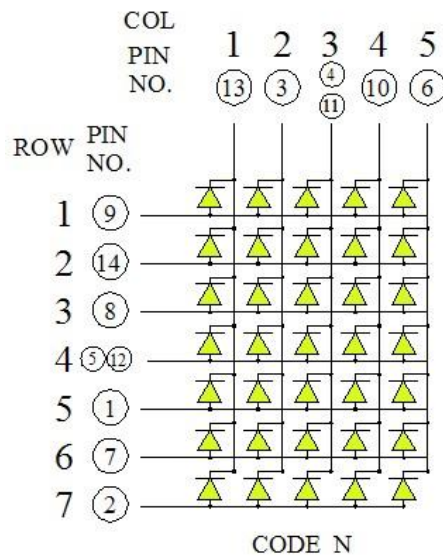
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## PACKAGE DIMENSIONS



## INTERNAL CIRCUIT DIAGRAM



### NOTES:

1. All dimensions are in millimeter(inch);
2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  especially other specified;
3. Pin length, housing color, marking no & circuit diagram can be customized;
4. Specifications are subject to change without notice.



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## CHIP



**Chip Material: AlGaInP/GaAs Yellow Green LED Chip**

### ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P <sub>D</sub>	60	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	I <sub>PEAK</sub>	100	mA
DC Forward Current	I <sub>F</sub>	25	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature Range	T <sub>A</sub>	-40 °C to +85 °C	
Storage Temperature Range	T <sub>STG</sub>	-40 °C to +85 °C	
Solder temperature 1/16 inch below seating plane for 3 seconds at 260 °C			

### ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	V <sub>F</sub>	-	2.20	2.40	V	Per Dot	I <sub>F</sub> = 20mA
Luminous Intensity	I <sub>v</sub>	40.0	45.0	50.0	mcd	Per Dot	I <sub>F</sub> = 20mA
Peak Emission Wavelength	λ <sub>p</sub>	-	575	-	nm	Per Dot	I <sub>F</sub> = 20mA
Dominant Emission Wavelength	λ <sub>d</sub>	569	572	574	nm	Per Dot	I <sub>F</sub> = 20mA
Spectral Line Half-Width	Δλ <sub>1/2</sub>	-	20	-	nm	Per Dot	I <sub>F</sub> = 20mA
Reverse Current	I <sub>R</sub>	-	-	10	uA	Per Dot	V <sub>R</sub> = 5V

Note:

1. Luminous intensity tolerance is ±10%;
2. Dominant Emission Wavelength tolerance is ±5%.



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## TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVE

FIG. 1 Forward Current Vs. Forward Voltage

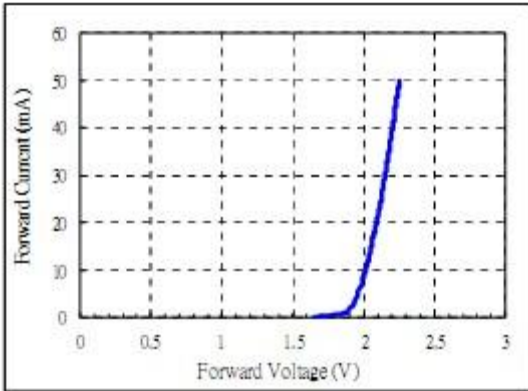


FIG. 2 Relative Intensity Vs. Forward Current

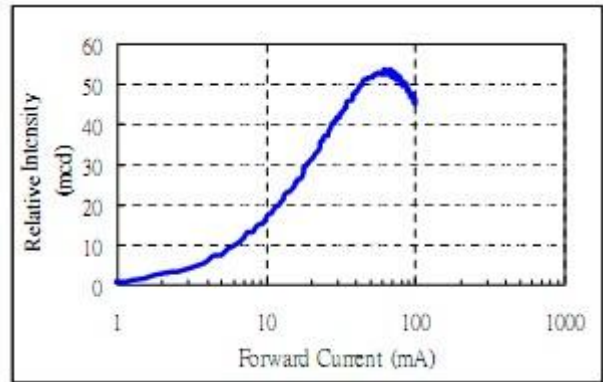


FIG. 3 Forward Voltage Vs. Temperature

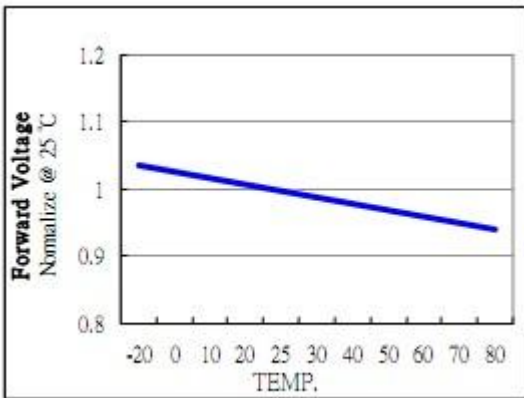


FIG. 4 Relative Intensity Vs. Temperature

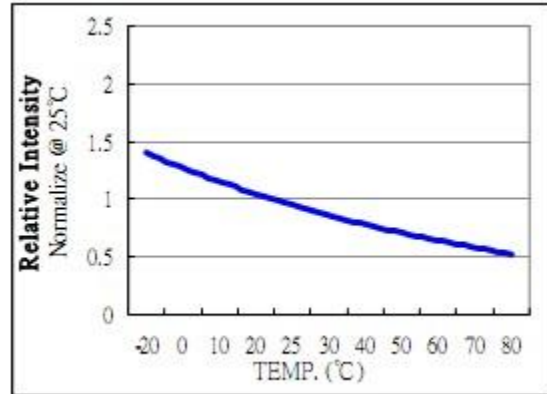


FIG. 5 Relative Intensity Vs. Wavelength

