

5x7 DOT Matrix grün

P/N: C03571-M-UG4-0-W-BS

Custom Design Series

PACKAGE DIMENSION

The technical drawing includes the following details:

- Pb-free** symbol (lead-free).
- Top View:** Shows a 5x7 grid of dots. Dimensions include:
 - Pin diameter: $\varnothing 0.9$
 - Pin pitch: $1.83 \times 6 = 10.98$
 - Overall width: $14.0 (0.56")$
 - Pin diameter: $\varnothing 1.4$
 - Pin spacing: $1.60 \times 4 = 6.40$
 - Overall length: $9.60 (0.384")$
- Side View:** Shows a pin height of $1.83 \times 5 = 9.15$.
- Bottom View:** Shows a base diameter of $\varnothing 0.45$, a base length of 7.00 , a pin offset of 0.3 , a pin diameter of 3.05 , and a pin length of 3.5 .
- Pinout Diagram:** A 7x5 grid of green dots with columns labeled 1-5 and rows labeled 1-7.

INTERNAL CIRCUIT DIAGRAM

The internal circuit diagram shows a 7x5 grid of LEDs. The columns are labeled COL. 1, 2, 3, 4, 5 and the rows are labeled ROW 1, 2, 3, 4, 5, 6, 7. Each LED is connected to a common ground line at the bottom. The pin connections are as follows:

ROW	PIN NO.	COL. 1	COL. 2	COL. 3	COL. 4	COL. 5
1	1	LED	LED	LED	LED	LED
2	12	LED	LED	LED	LED	LED
3	11	LED	LED	LED	LED	LED
4	10	LED	LED	LED	LED	LED
5	9	LED	LED	LED	LED	LED
6	8	LED	LED	LED	LED	LED
7	6	LED	LED	LED	LED	LED

CODE M

NOTES:

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

Chip Material: AlGaInP / GaAs Yellow Green LED Chip

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

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	PD	62	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	IPEAK	140	mA
DC Forward Current	IF	25	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TA	-40°C to +85°C	
Storage Temperature Range	TSTG	-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 _F	-	2.20	2.50	V	Per Segment	I _F = 20mA
Luminous Intensity	I _v	30.0	35.0	40.0	mcd	Per Segment	I _F = 20mA
Peak Emission Wavelength	λ _p	-	575	-	nm	Per Segment	I _F = 20mA
Dominant Emission Wavelength	λ _d	567	572	577	nm	Per Segment	I _F = 20mA
Spectral Line Half-Width	Δλ _{1/2}	-	20	-	nm	Per Segment	I _F = 20mA
Capacitance	C	-	15	-	pF	Per Segment	V _F = 0V; f = 1MHz
Reverse Current	I _R	-	-	10	uA	Per Segment	V _R = 5V

Note:

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

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

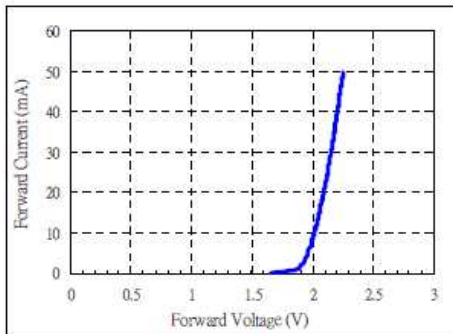


FIG. 2 Relative Intensity Vs. Forward Current

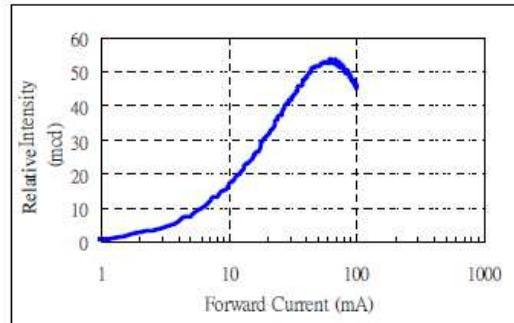


FIG. 3 Forward Voltage Vs. Temperature

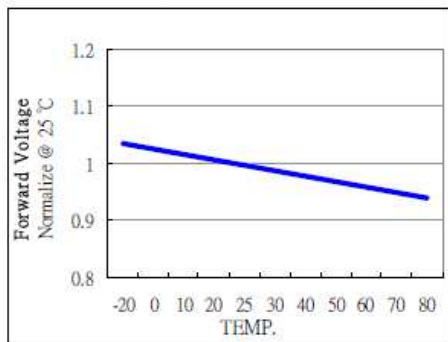


FIG. 4 Relative Intensity Vs. Temperature

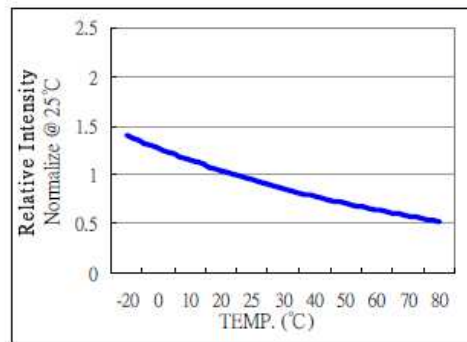


FIG. 5 Relative Intensity Vs. Wavelength

