

### FEATURES

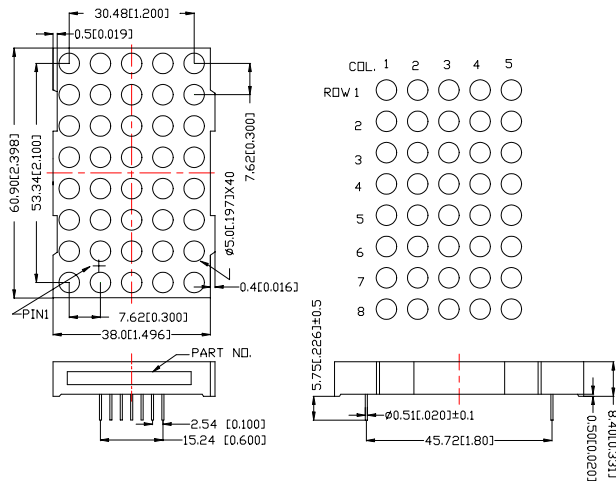
- 2.4inch (60.9mm or 60.5mm) Matrix height
- Choice of colors—Bright Green / Orange / Red,etc
- Flat package and light weight
- Easy assembly
- High quality and low cost
- High reliable and intensity
- Low power requirement

### DESCRIPTION :

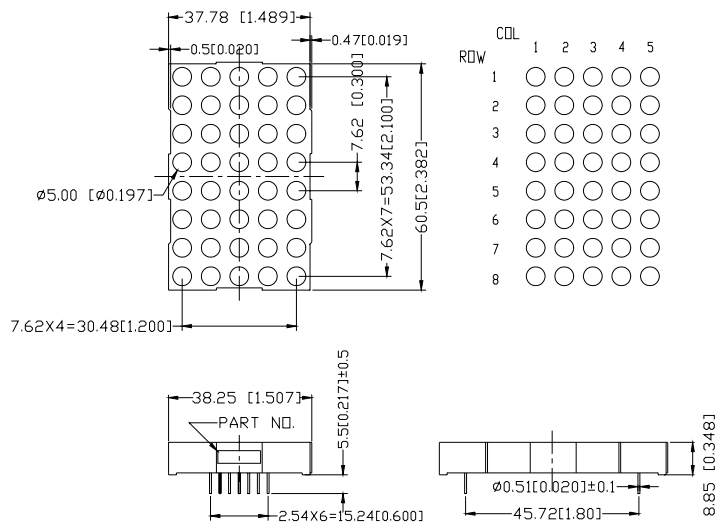
- 5X 8 dot matrix LED displays
- Ø5mm dot and pitch 7.62mm
- Black face or gray face and milky dots

### PACKAGE DIMENSIONS

#### A. WCN-5824XX-DA01/DC01



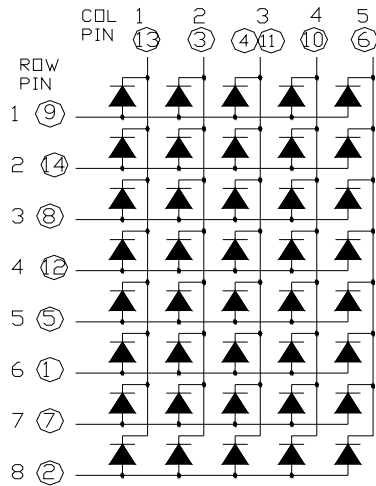
B. WCN-5824XX-DA04/DC04



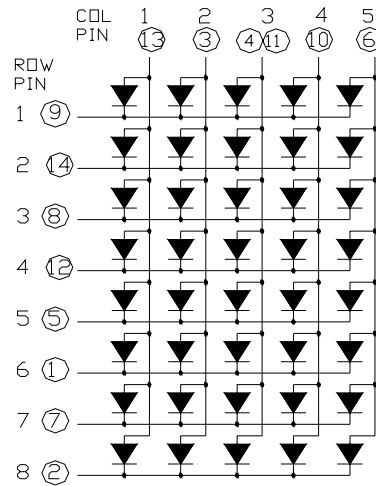
NOTES: All dimensions are in millimeter (inches) tolerance are  $\pm 0.25\text{mm}$  (0.01inch) unless otherwise noted.

CIRCUIT DIAGRAM

A. WCN-5824XX-DA01/DA04



B. WCN-5824XX-DC01/DC04



**ABSOLUTE MAXIMUM RATINGS AT T<sub>a</sub>=25°C**

PARAMETER	Bright Green	Orange	SH. Red	UNIT
Maximal Power Dissipation (When completely Lighting) Per Dot	26	26	20	mW
Maximal Forward Current (When completely Lighting) Per Dot	10	10	10	mA
Derating Linear From 25°C Per Dot	0.166	0.166	0.166	mA/°C
Peak Forward Current Per Dot	40	40	40	mA
Reverse Voltage Per Dot	5			V
Operation Temperature Range	-35 ~+85			°C
Storage Temperature Range.	-35 ~+85			°C

 NOTES: T<sub>a</sub>=25°C I<sub>F P</sub>= 1/8Duty 10KHZ

**OPTOELECTRIC CHARACTERISTICS T<sub>a</sub>=25°C**

PARAMETER	SYMBOL	TEST CONDITIONS	PART NO.	RATING			UNIT
				MIN.	TYP.	MAX.	
Forward Voltage Per Dot	V <sub>F</sub>	I <sub>F</sub> =20mA	Bright Green	1.8	2.25	2.6	V
			Orange	—	2.05	2.6	
			SH. Red	—	1.8	2.0	
Reverse Current Per Dot	I <sub>R</sub>	V <sub>R</sub> =5V	Bright Green SH. Red, Orange	—	—	100	μA
Luminous Intensity Per Dot	I <sub>v</sub>	I <sub>F P</sub> =40mA 1/8 Duty	Bright Green	—	3.5	—	mcd
			Orange	—	2.5	—	
			SH. Red	—	5.0	—	
Peak Emission Wavelength Per Dot	λ <sub>p</sub>	I <sub>F</sub> =20mA	Bright Green	—	568	—	nm
			Orange	—	632	—	
			SH. Red	—	660	—	
Dominant Wavelength Per Dot	λ <sub>D</sub>	I <sub>F</sub> =20mA	Bright Green	—	573	—	nm
			Orange	—	622	—	
			SH. Red	—	643	—	
Spectral Line Wave Length Per Dot	Δλ	I <sub>F</sub> =20mA	Bright Green	—	30	—	nm
			Orange	—	35	—	
			SH. Red	—	20	—	
Luminous Intensity Matching Ratio (Dot To Dot)	I <sub>v-m</sub>	I <sub>F P</sub> =40mA 1/8 Duty	Bright Green SH. Red. Orange			2:1	

**SOLDERING CONDITIONS** : Soldering Temp. ≤ +260°C; Soldering Time ≤ 3sec  
(at 2mm Distance from the Case of Reflector Edge)