

### FEATURES

- 1.50inch (38.0mm) Matrix height
- Dual colors — Bright Green + Orange/Bright Green +SH. Red
- Flat package and light weight
- Easy assembly
- High quality and low cost
- High reliable and intensity
- Low power requirement

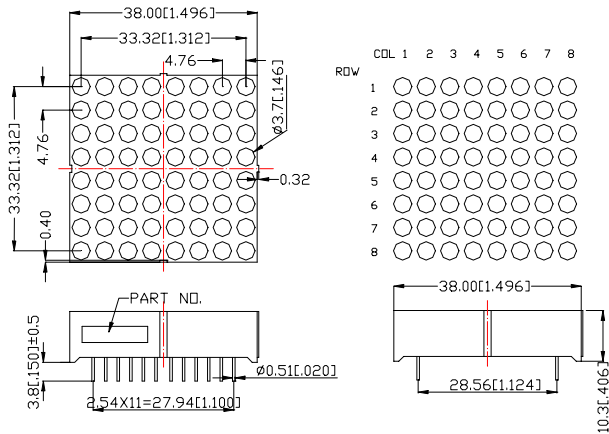
### DESCRIPTION :

- 8x8 dot matrix displays
- Ø3.7mm dot and pitch 4.76mm
- Black face or gray face and diffuser epoxy dots

### DEVICES

PART NO.		DESCRIPTION	CIRCUIT DIAGRAM
Bright Green + Orange	Bright Green + SH. Red		
DM4-8815D1-DA01	DM4-8815D3-DA01	Row Anode	A
DM4-8815D1-DC01	DM4-8815D3-DC01	Row Cathode	B

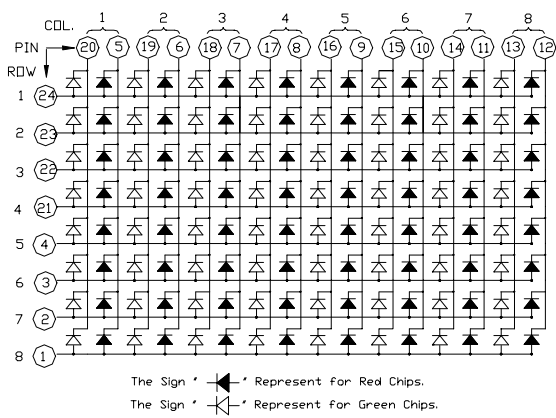
### PACKAGE DIMENSIONS



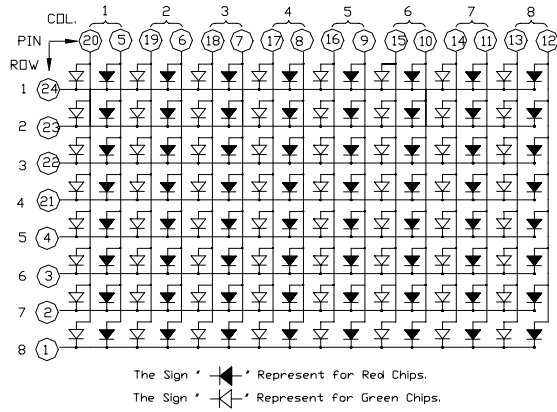
NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25mm (0.01inch) unless otherwise noted;

## CIRCUIT DIAGRAM

### A. DM4-8815D1/D3-DA01



### B. DM4-8815D1/D3-DC01



## PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Row 8	13	Column 8 (Bright Green)
2	Row 7	14	Column 7 (Bright Green)
3	Row 6	15	Column 6 (Bright Green)
4	Row 5	16	Column 5 (Bright Green)
5	Column 1 (Orange / SH. Red)	17	Column 4 (Bright Green)
6	Column 2 (Orange / SH. Red)	18	Column 3 (Bright Green)
7	Column 3 (Orange / SH. Red)	19	Column 2 (Bright Green)
8	Column 4 (Orange / SH. Red)	20	Column 1 (Bright Green)
9	Column 5 (Orange / SH. Red)	21	Row 4
10	Column 6 (Orange / SH. Red)	22	Row 3
11	Column 7 (Orange / SH. Red)	23	Row 2
12	Column 8 (Orange / SH. Red)	24	Row 1

**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	0.083	0.083	0.083	mA/°C
Peak Forward Current Per Dot	80	80	80	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>FP</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	μ A
Luminance	L	I <sub>FP</sub> =40mA 1/8 Duty	Bright Green + Orange	—	250	—	cd/m <sup>2</sup>
			Bright Green + SH. Red	—	350	—	
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>FP</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)