



DM4-8816 SERIES

Ø 3.7mm 8× 8 SINGLE COLOR DOT MATRIX LED DISPLAYS

FEATURES

- 1.57inch (39.90mm) Matrix height
- Choice of three colors—Bright Green / Orange / SH. Red
- Flat package and light weight
- Easy assembly
- High quality and low cost
- High reliable and intensity
- Low power requirement

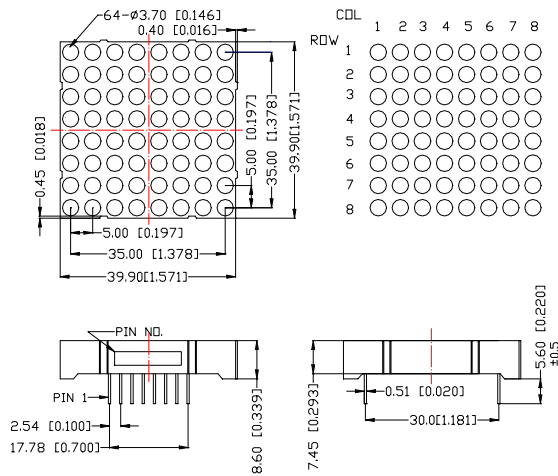
DESCRIPTION :

- 8x8 dot matrix displays
- Ø3.7mm dot and pitch 5.0mm
- Black face or gray face and white diffused dots

DEVICES

PART NO.			DESCRIPTION	CIRCUIT DIAGRAM
Bright Green	Orange	SH. Red		
DM4-8816GU-DA01	DM4-8816HO-DA01	DM4-8816SR-DA01	Row Anode	A
DM4-8816GU DC01	DM4-8816HO-DC01	DM4-8816SR-DC01	Row Cathode	B

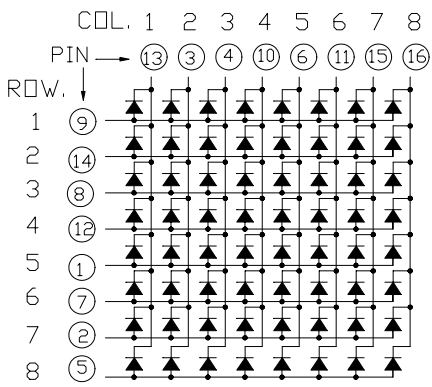
PACKAGE DIMENSIONS



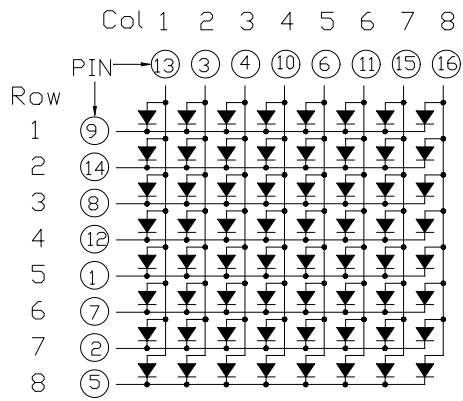
NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25 mm (0.01inch) unless otherwise noted;

CIRCUIT DIAGRAM

A. DM4-8816GU/HO/SR-DA01



B. DM4-8816GU/HO/SR-DC01



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Row 5	9	Row 1
2	Row 7	10	Column 4
3	Column 2	11	Column 6
4	Column 3	12	Row 4
5	Row 8	13	Column 1
6	Column 5	14	Row 2
7	Row 6	15	Column 7
8	Row 3	16	Column 8

ABSOLUTE MAXIMUM RATINGS AT T_a=25°C

PARAMETER	Bright Green	Orange	SH. Red	UNIT
Maximal Power Dissipation (When completely Lighting) Per Dot	39	39	30	mW
Maximal Forward Current (When completely Lighting) Per Dot	15	15	15	mA
Derating Linear From 25°C Per Dot	0.166	0.166	0.166	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_a=25°C I_{FP}=1/8Duty 10KHZ

OPTOELECTRIC CHARACTERISTICS T_a=25°C

PARAMETER	SYMBOL	TEST CONDITIONS	PART NO.	RATING			UNIT
				MIN.	TYP.	MAX.	
Forward Voltage Per Dot	V _F	I _F =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 _R	V _R =5V	Bright Green SH. Red. Orange	—	—	100	μ A
Luminous Intensity Per Dot	I _V	1/8 Duty I _{FP} =40mA	Bright Green	1.76	3.0	—	mcd
			Orange	1.2	2.0	—	
			SH. Red	3.0	4.5	—	
Peak Emission Wavelength Per Dot	λ _P	I _F =20mA	Bright Green	—	568	—	nm
			Orange	—	632	—	
			SH. Red	—	660	—	
Dominant Wavelength Per Dot	λ _D	I _F =20mA	Bright Green	—	573	—	nm
			Orange	—	622	—	
			SH. Red	—	643	—	
Spectral Line Wave Length Per Dot	Δλ	I _F =20mA	Bright Green	—	30	—	nm
			Orange	—	35	—	
			SH. Red	—	20	—	
Luminous Intensity Matching Ratio (Dot To Dot)	I _{V-m}	1/8 Duty I _{FP} =40mA	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)