# MCD-23884DX Series

## 2.30 (60.96mm)Oval 5.00mm 8*8 Lamp Dot Matrix Displays

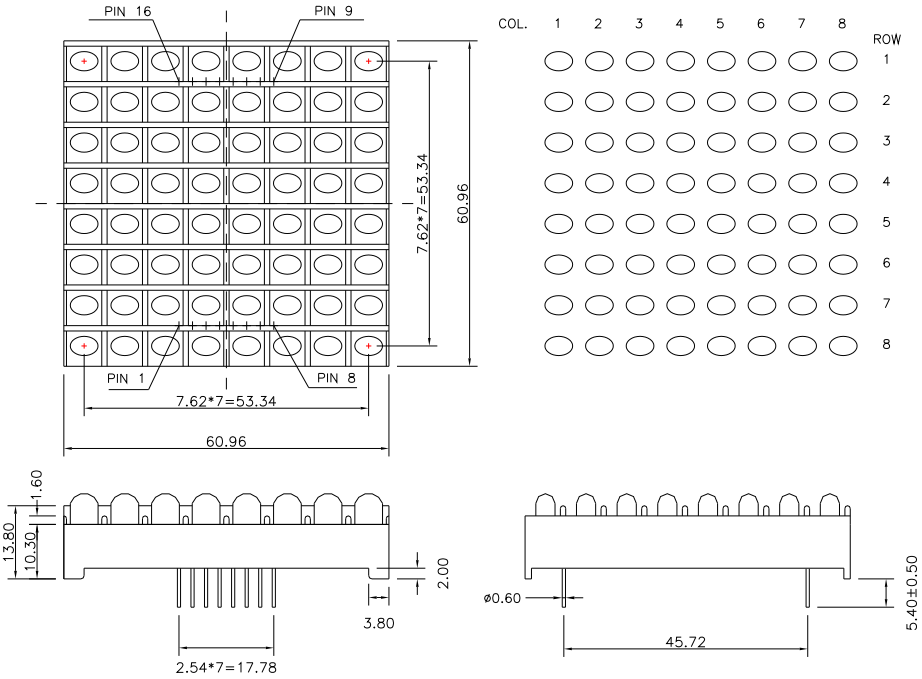
### Electro/Optical Characteristics If=20mA Ta=25℃

| Part Number | Emitting Color | Lens Color | Peak Wavelength | Forward Voltage $V_F$/Dot | | Luminous Intensity Iv/Dot | | Viewing Angle |
|---|---|---|---|---|---|---|---|---|
| | | | | Typ. | Max. | Min. | Typ. | 2 θ 1/2 |
| GNML-23884DUE-546CH-E14 | AlGaInP Ultra Orange | Water Clear | 632 | 2.00 | 2.50 | 900.00 | 1300.00 | 100 |
| GNML-23884DUE-546DH-E14 | AlGaInP Ultra Yellow | Yellow Diffused | 590 | 2.00 | 2.50 | 1000.00 | 1500.00 | 120 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Units | | | nm | V | | mcd | | degree |

### Maximum Ratings Ta=25℃ (Derate above 25℃)

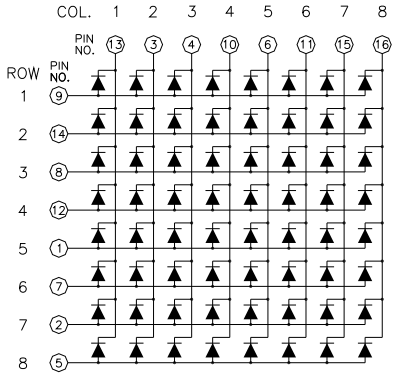
| Characteristic | Test Condition | Symbol | UE | UY | | | Units |
|---|---|---|---|---|---|---|---|
| Pulse Forward Current Per Dot | 1/10 duty cycle 0.1ms Pulse width | $I_{FP}$ | 100 | 100 | | | mA |
| DC Forward Current Per Dot | | $I_F$ | 30 | 30 | | | mA |
| Reverse Current Per Dot | $V_R$=5V | $I_R$ | 10 | 10 | | | μA |
| Power Dissipation | | $P_D$ | 65*64 | 65*64 | | | mW |
| Operating Temperature | | $T_{OPR}$ | -40 to +80 | | | | ℃ |
| Storage Temperature | | $T_{TSG}$ | -40 to +85 | | | | ℃ |
| Lead soldering temperature | 1.60mm from body maximum 3 seconds | | 260 | | | | ℃ |

## PACKAGE DIMENSION




Tolerance 0.25mm unless stated

## INTERNAL CIRCUIT DIAGRAM




Row Anode
Column Cathode
MCD-23884Dx