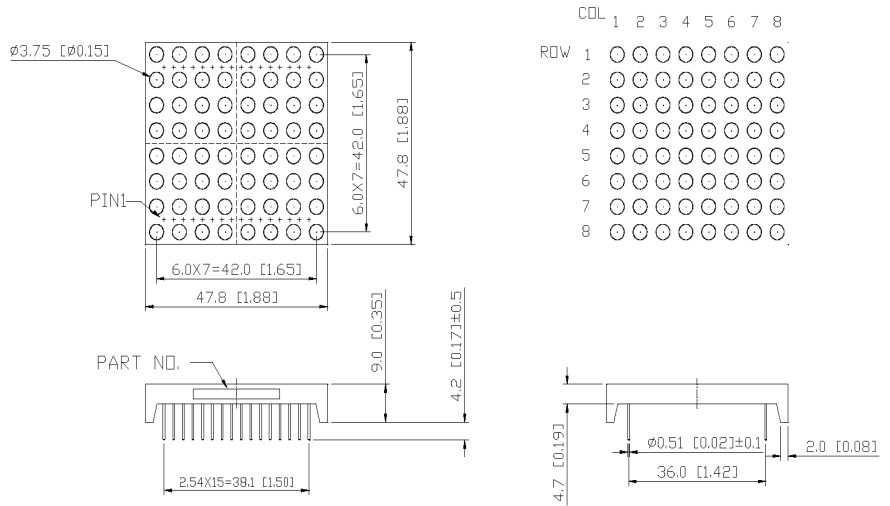


DM4-8819F4-CA02

Features

- 1.9in (48.2mm) Matrix Height
- Full color – DH. Red + Bright Green + Blue
- Flat Package and Light Weight
- Easy Assembly
- High Quality and Low Cost
- High Reliability and Intensity
- Low Power Requirement



Maximum Ratings (Ta=25°C)

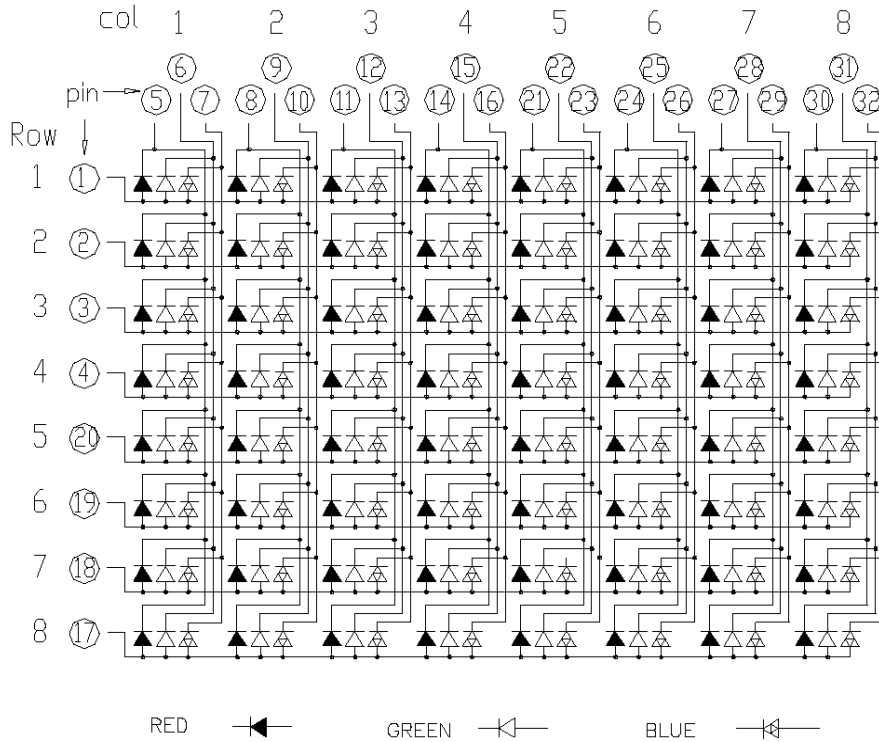
| Characteristic | Symbol | Max. | | | Unit |
|-----------------------|------------------|----------------|----------------|----------------|------|
| | | UR | UBL1 | YG | |
| Forward Current | I _F | 15 | 20 | 15 | mA |
| Reverse Voltage | V _R | 5 | 5 | 5 | V |
| Power Dissipation | P _D | 30.00 | 90.00 | 39.00 | mW |
| Operating Temperature | T _{opr} | -35 ~ +80 | -35 ~ +80 | -35 ~ +80 | °C |
| Storage Temperature | T _{stg} | -40 ~ +80 | -40 ~ +80 | -40 ~ +80 | °C |
| Soldering Temperature | T _{sol} | 260 | 260 | 260 | °C |
| Soldering Time | - | for 3 sec. max | for 3 sec. max | for 3 sec. max | - |



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

Opto-Electrical Characteristics (Ta=25°C)

| Characteristic | Symbol | Test Condition | Min | | | Typ | | | Max | | | Unit |
|--------------------------|----------------|----------------------|-----|------|----|--------|------|------|------|------|------|------|
| | | | UR | UBL1 | YG | UR | UBL1 | YG | UR | UBL1 | YG | |
| Forward Voltage | V _F | I _F =20mA | - | - | - | 1.80 | 3.80 | 2.20 | 2.00 | 4.50 | 2.60 | V |
| Reverse Current | I _R | V _R =5V | - | - | - | - | - | - | 100 | 100 | 100 | μA |
| Luminous Intensity | I _v | I _F =40mA | - | - | - | 200.00 | - | - | - | - | - | mcd |
| Peak Wavelength | λ _p | I _F =20mA | - | - | - | 660 | 460 | 567 | - | - | - | nm |
| Dominant Wavelength | λ _d | I _F =20mA | - | - | - | 643 | 465 | 573 | - | - | - | nm |
| Spectral Line Half Width | Δλ | I _F =20mA | - | - | - | 20 | 65 | 30 | - | - | - | nm |



| PIN NO. | CONNECTION | PIN NO. | CONNECTION |
|---------|------------|---------|------------|
| 1 | ROW 1 | 17 | ROW 8 |
| 2 | ROW 2 | 18 | ROW 7 |
| 3 | ROW 3 | 19 | ROW 6 |
| 4 | ROW 4 | 20 | ROW 5 |
| 5 | COL 1 R | 21 | COL 5 R |
| 6 | COL 1 G | 22 | COL 5 G |
| 7 | COL 1 B | 23 | COL 5 B |
| 8 | COL 2 R | 24 | COL 6 R |
| 9 | COL 2 G | 25 | COL 6 G |
| 10 | COL 2 B | 26 | COL 6 B |
| 11 | COL 3 R | 27 | COL 7 R |
| 12 | COL 3 G | 28 | COL 7 G |
| 13 | COL 3 B | 29 | COL 7 B |
| 14 | COL 4 R | 30 | COL 8 R |
| 15 | COL 4 G | 31 | COL 8 G |
| 16 | COL 4 B | 32 | COL 8 B |