

# **KW4-563ASA**

## **DATA SHEET**

QC:

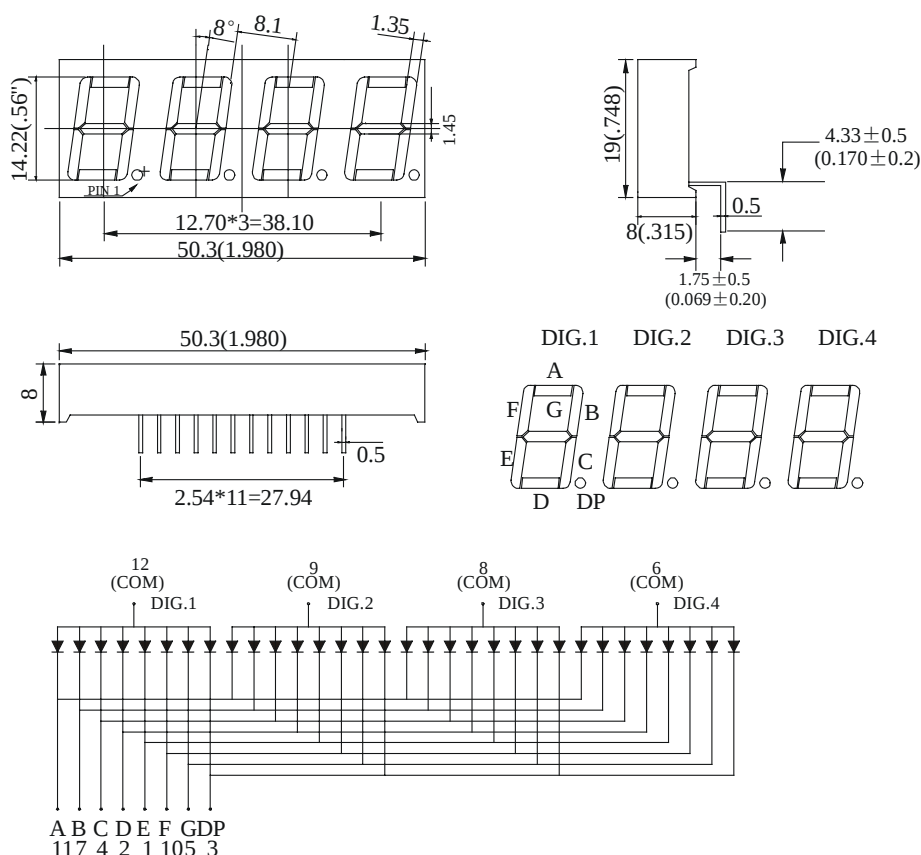
ENG:

Prepared By:

## Features

- ◆ 0.56" Four Digit Super Green
- ◆ Common Anode (Common PIN 12 And PIN 9、8、6)
- ◆ Gray Face, White Segment

## Package Dimension:



| Part NO.   | Face Color | Source Color |
|------------|------------|--------------|
| KW4-563ASA | Gray       | Green        |

## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(.010)$ mm unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

### Absolute Maximum Ratings at Ta=25°C

| Parameter                                                    | MAX.                | Unit  |
|--------------------------------------------------------------|---------------------|-------|
| Power Dissipation                                            | 100                 | mW    |
| Peak Forward Current<br>(1/10 Duty Cycle, 0.1ms Pulse Width) | 100                 | mA    |
| Continuous Forward Current                                   | 50                  | mA    |
| Derating Linear From 50°C                                    | 0.4                 | mA/°C |
| Reverse Voltage                                              | 5                   | V     |
| Operating Temperature Range                                  | -40°C to +80°C      |       |
| Storage Temperature Range                                    | -40°C to +80°C      |       |
| Lead Soldering Temperature<br>[4mm(.157") From Body]         | 260°C for 5 Seconds |       |

### Electrical Optical Characteristics at Ta=25°C

| Parameter                | Symbol             | Min. | Typ. | Max. | Unit | Test Condition                |
|--------------------------|--------------------|------|------|------|------|-------------------------------|
| Luminous Intensity       | I <sub>v</sub>     | 7000 | 8000 | ---  | μcd  | I <sub>F</sub> =20mA (Note 1) |
| Viewing Angle            | 2 θ <sub>1/2</sub> | ---  | ---  | ---  | Deg  | (Note 2)                      |
| Peak Emission Wavelength | λ <sub>p</sub>     | 655  | 660  | 665  | nm   | I <sub>F</sub> =20mA          |
| Dominant Wavelength      | λ <sub>d</sub>     | 635  | 640  | 645  | nm   | I <sub>F</sub> =20mA (Note 3) |
| Spectral Line Half-Width | △λ                 | 19   | 24   | 29   | nm   | I <sub>F</sub> =20mA          |
| Forward Voltage          | V <sub>F</sub>     | 1.7  | 2.2  | 2.8  | V    | I <sub>F</sub> =20mA          |
| Reverse Current          | I <sub>R</sub>     | ---  | ---  | 100  | μA   | V <sub>R</sub> =5V            |

#### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λ<sub>d</sub>) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

