

KW4-563ASB

DATA SHEET

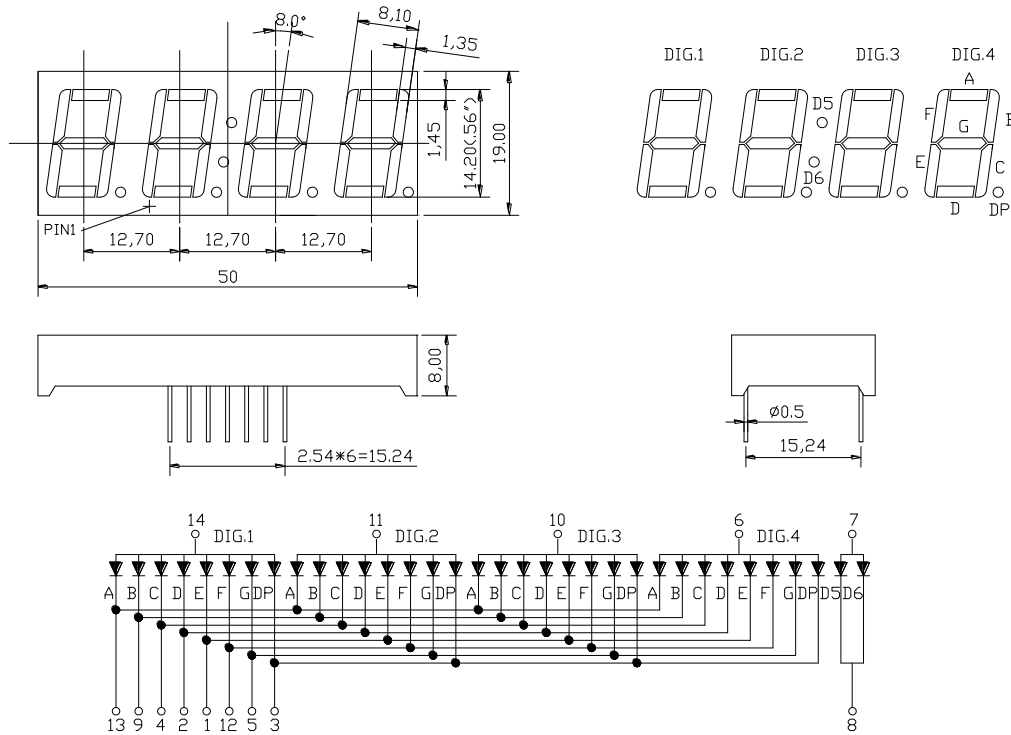
QC:

ENG:

Prepared By:

RED POWER

Package Dimensions:



| Part NO. | Chip Material | Source Color | Face | Segment |
|------------|---------------|--------------|-------|---------|
| KW4-563ASB | AlGaAs | Super Red | Black | White |

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
3. Specifications are subject to change without notice.

RED POWER

Absolute Maximum Ratings at Ta=25°C

| Parameter | MAX. | Unit |
|--|---------------------|-------|
| Power Dissipation | 100 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | mA |
| Continuous Forward Current | 40 | 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 [1.6mm(.063") From Body] | 260°C for 5 Seconds | |

Electrical Optical Characteristics at Ta=25°C

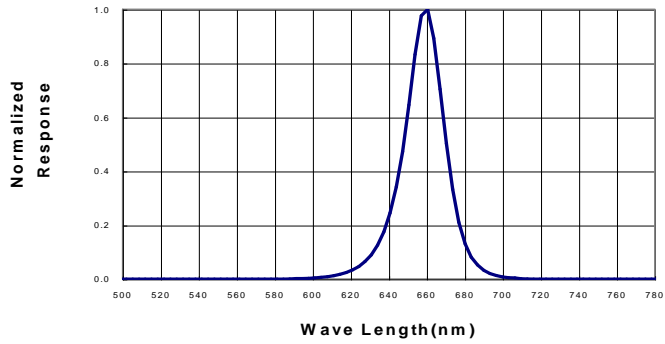
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|--------------------------|----------------|------|------|------|------|-------------------------------|
| Luminous Intensity | I _v | 7 | 15 | 32 | mcd | I _f =20mA (Note 1) |
| Peak Emission Wavelength | λ _p | 655 | 660 | 665 | nm | I _f =20mA |
| Spectral Line Half-Width | Δ λ | 19 | 24 | 29 | nm | I _f =20mA |
| Forward Voltage | V _f | 1.6 | 1.85 | 2.4 | V | I _f =20mA |
| Reverse Current | I _R | --- | --- | 100 | μA | V _R =5V |

Notes:

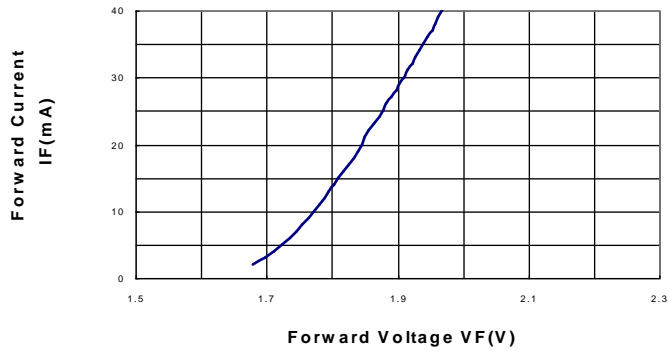
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

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

Spectral Radiance (Peak @ 660nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

