

AVA TECHNOLOGY CO.

Technical Specification

Model: ND56G4

Name: .56"Seven-Segment Display

REV: A

Date: 2006-1-6

AVA TECHNOLOGY CO.

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DESCRIPTION••

THE GREEN SOURCE COLOR DEVICES
ARE MADE WITH InGaAlP
SUBSTRATE LIGHT EMITTING DIODE

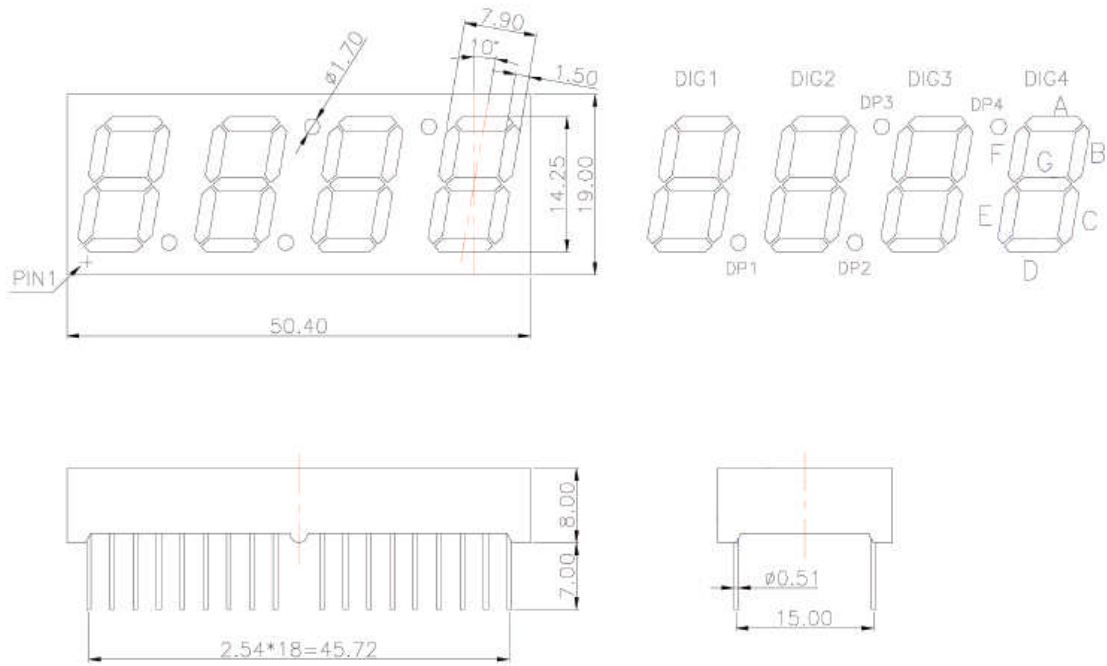


FEATURES

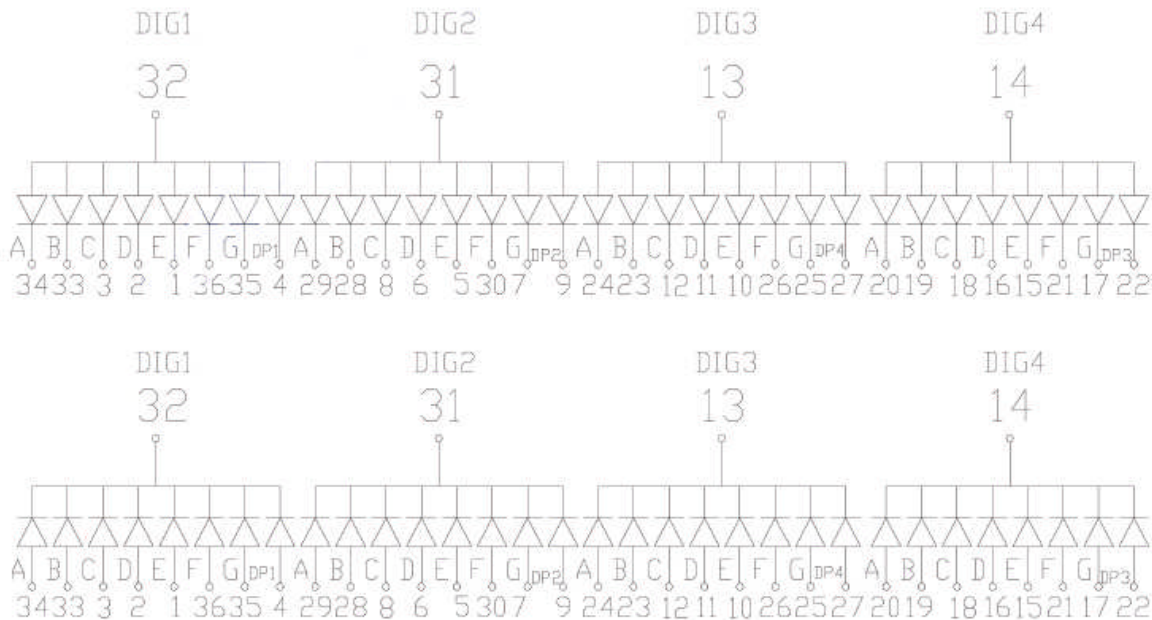
- 0.56 inch (14.25 mm) DIGIT HEIGHT
- CONTINUOUS UNIFORM SEGMENTS
- LOW POWER REQUIREMENT
- EXCELLENT CHARACTERS APPEARANCE
- HIGH BRIGHTNESS & HIGH CONTRAST
- WIDE VIEWING ANGLE
- SOLID STATE RELIABILITY
- CATEGORIZED FOR LUMINOUS INTENSITY
- THE CHARACTERISTIC OF ENCAPSULATION METHOD IS USE THE CHIP ON BORAD OR SMT

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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 -mm (0.01") unless otherwise noted.
INTERNAL CIRCUIT DIAGRAM



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Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @10mA | | Description |
|----------|-----------------|-------------------|-------------------|-------|----------------|
| | | | Min. | Typ. | |
| ND56G4A | GREEN (InGaAlP) | WHITE DIFFUSED | 11.08 | 12.04 | Common Anode |
| ND56G4C | GREEN (InGaAlP) | WHITE DIFFUSED | 11.08 | 12.04 | Common Cathode |

ABSOLUTE MAXIMUM RATING AT Ta = 25oC

| PARAMETER | MAXIMUM RATING | UNIT |
|-------------------------------|--|------|
| Power Dissipation Per Segment | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current | 100 | mA |
| Reverse Voltage Per Segment | 5 | V |
| Operating Temperature Range | -40 ⁰ C to +85 ⁰ C | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25oC

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------|-----------------|------|------|------|---------|----------------------|
| Peak Emission Wavelength | λ_p | | 572 | | nm | I _F =20mA |
| Spectral Line Half-Width | $\Delta\lambda$ | | 30 | | nm | I _F =20mA |
| Dominant Wavelength | λ_d | | 569 | | nm | I _F =20mA |
| Forward Voltage Per Segment | V _F | | 2.15 | 2.5 | V | I _F =20mA |
| Reverse Current Per Segment | I _R | | | 20 | μ A | V _R =5V |

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

RELATIVE INTENSITY vs WAVELENGTH

