Technical Specification

www.DataSheet4U.com

Model: <u>ND39R1</u> Name: <u>.39"Seven-Segment Display</u> REV: <u>A</u> Date: <u>2006-1-6</u>

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DESCRIPTION

THE SUPER BRIGHT RED SOURCE COLOR DEVICES ARE MADE WITH GALLIUM ALUMINUM ARSENIDE RED LIGHT EMITTING DIODE

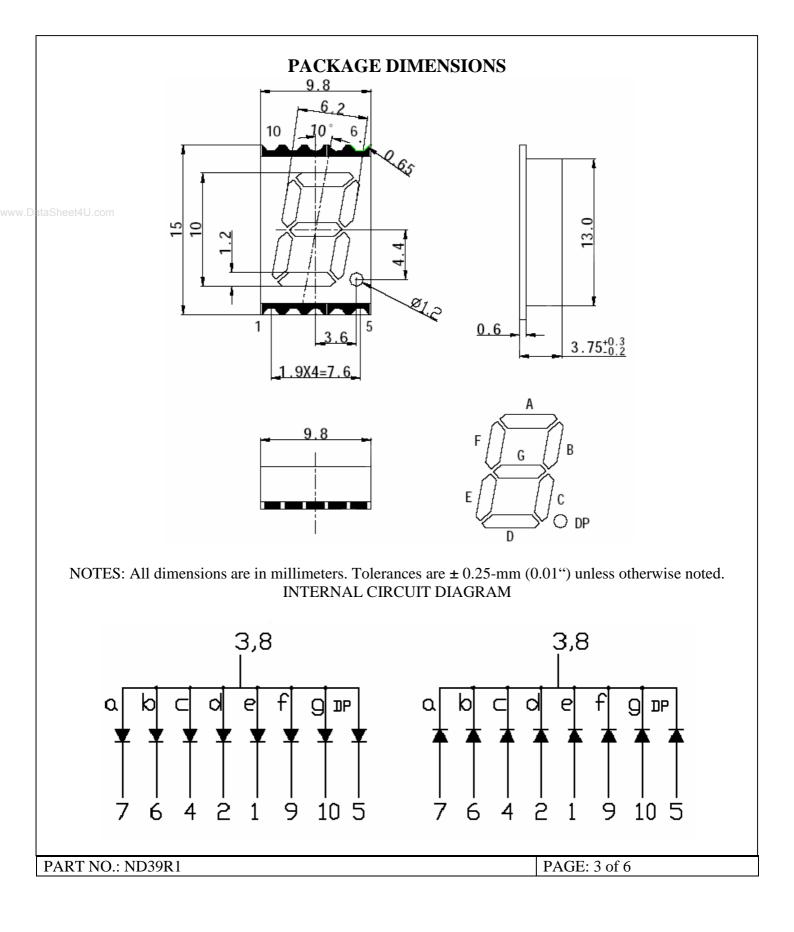


FEATURES

- * 0.39 inch (10.0 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 ENCAPXULATION METHOD IS USE THE CHIP ON BORAD OR SMT

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| S | Selection Gulde | | | | | | | | | | | | |
|------|-----------------|--------------|-------------------|-------------------|-------|----------------|--|--|--|--|--|--|--|
| | Part No. | Dice | Long Tune | Iv (mcd) @10mA | | Description | | | | | | | |
| | | | Lens Type | Min. | Тур. | Description | | | | | | | |
| ataS | ND39R1ASR-S | RED (GaAlAs) | WHITE DIFFUSED | 16.35 | 17.46 | Common Anode | | | | | | | |
| | ND39R1CSR-S | RED (GaAlAs) | WHITE DIFFUSED | 16.35 | 17.46 | Common Cathode | | | | | | | |

ABSOLUTE MAXIMUM RATING AT Ta = 25oC

| PARAMETER | MAXIMUM RATING | UNIT | | | |
|-------------------------------|----------------------------|------|--|--|--|
| Power Dissipation Per Segment | 100 | mW | | | |
| DC Froward Current | 30 | mA | | | |
| Peak Froward Current | 155 | mA | | | |
| Reverse Voltage Per Segment | 5 | V | | | |
| Operating Temperature Range | -40^{0} C to $+85^{0}$ C | | | | |

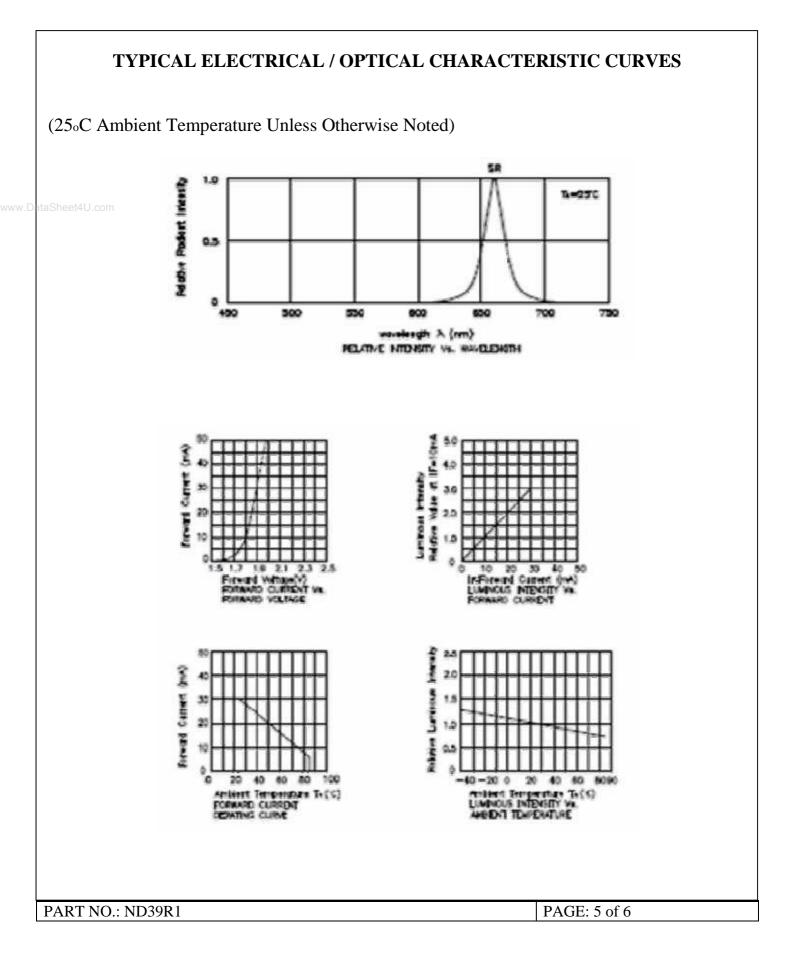
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

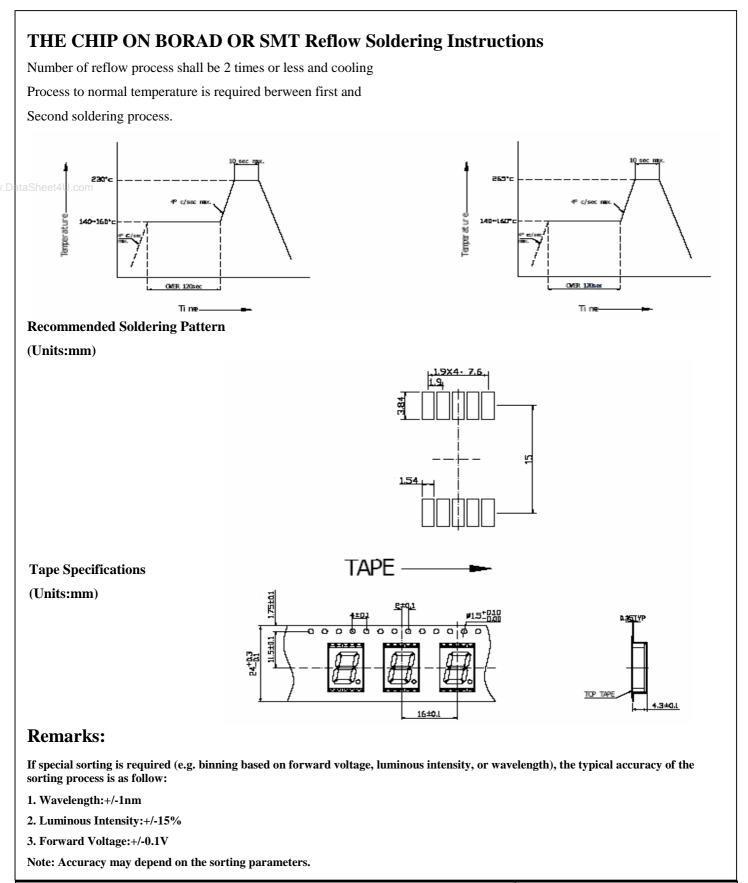
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------|--------|------|------|------|------|-----------------------|
| Peak Emission Wavelength | λp | | 645 | | nm | IF=20mA |
| Spectral Line Half-Width | Δλ | | 20 | | nm | IF=20mA |
| Dominant Wavelength | λd | | 643 | | nm | IF=20mA |
| Forward Voltage Per Segment | VF | | 1.85 | 2.5 | V | IF=20mA |
| Reverse Current Per Segment | Ir | | | 10 | μA | V _R =5V |

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

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