Technical Specification

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

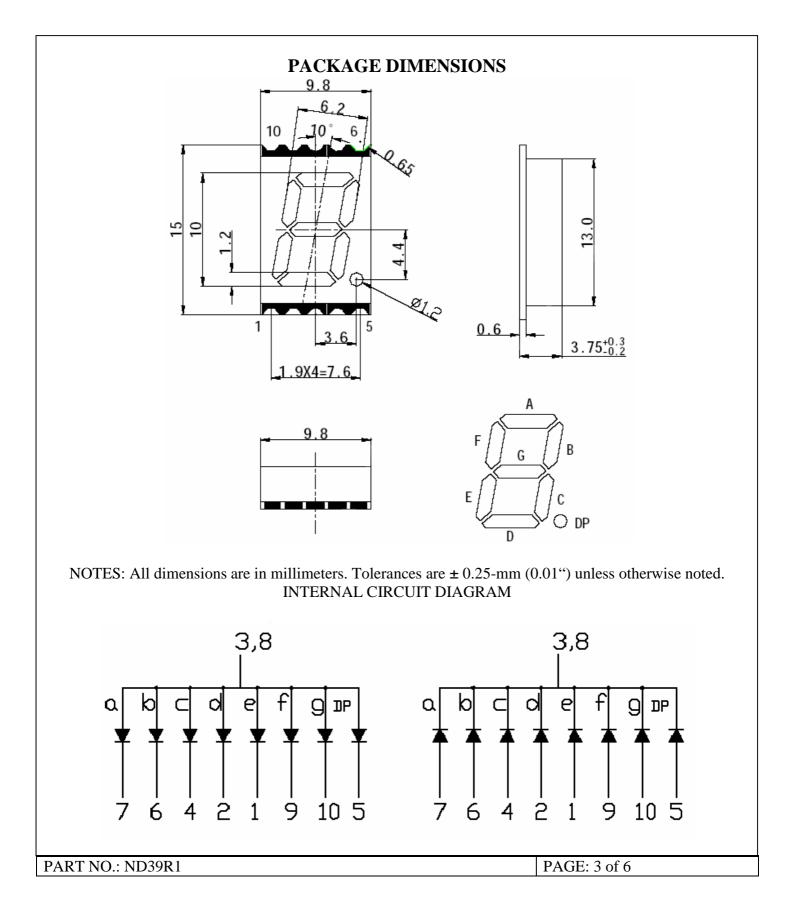


FEATURES

- * 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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Iv (mcd) @10mA

Description

Selection Gulde Part No. Dice Lens Type

			Min.	Тур.		
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° C to $+85^{\circ}$ C		

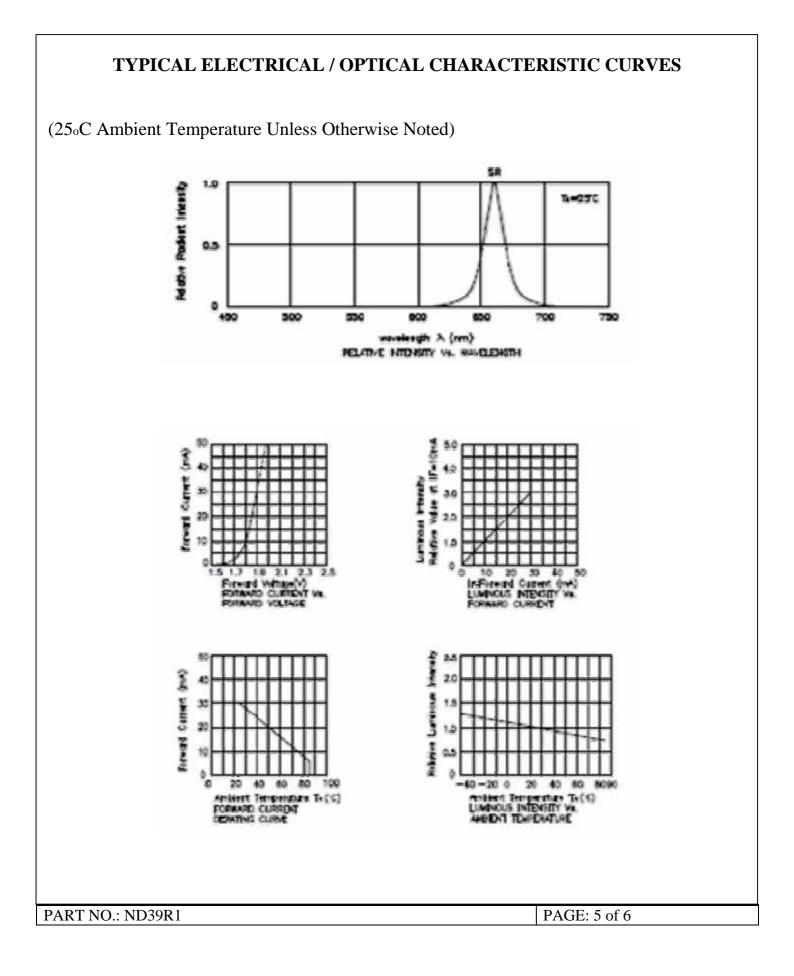
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C

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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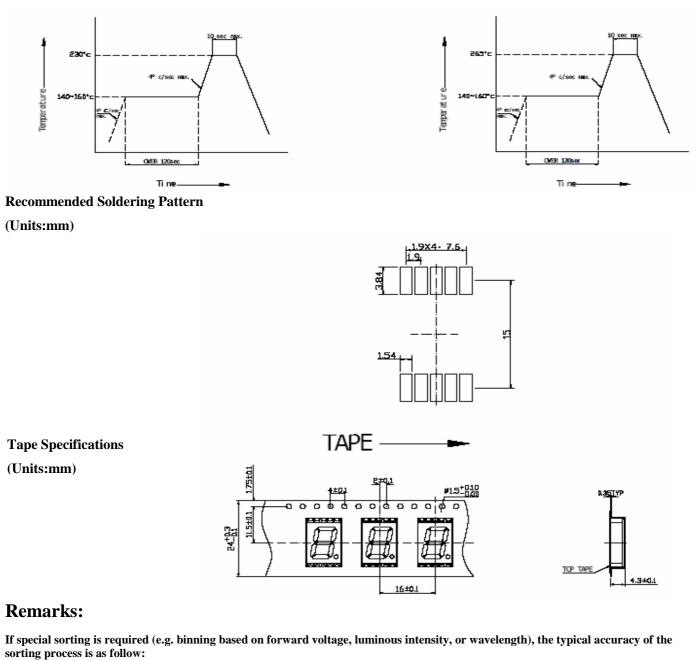
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THE CHIP ON BORAD OR SMT Reflow Soldering Instructions

Number of reflow process shall be 2 times or less and cooling Process to normal temperature is required between first and

Second soldering process.



1. Wavelength:+/-1nm

2. Luminous Intensity:+/-15%

3. Forward Voltage:+/-0.1V

Note: Accuracy may depend on the sorting parameters.

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