# **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>

#### AVA TECHNOLOGY CO. 2640 S. Myrtle Ave. Suite 6, Monrovia, CA 91016 Tel: 626-574-7726 Fax: 626-574-7732

PART NO .: ND39R1

PAGE: 1 of 6

#### DESCRIPTION

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

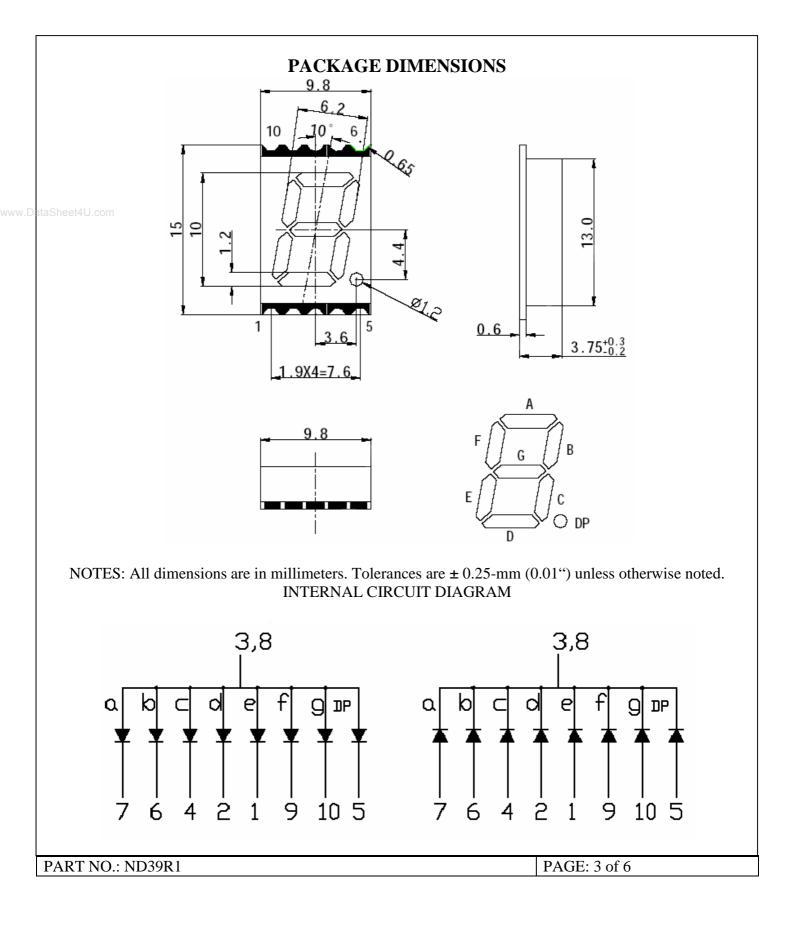


#### **FEATURES**

- \* 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

PART NO.: ND39R1

PAGE: 2 of 6



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				

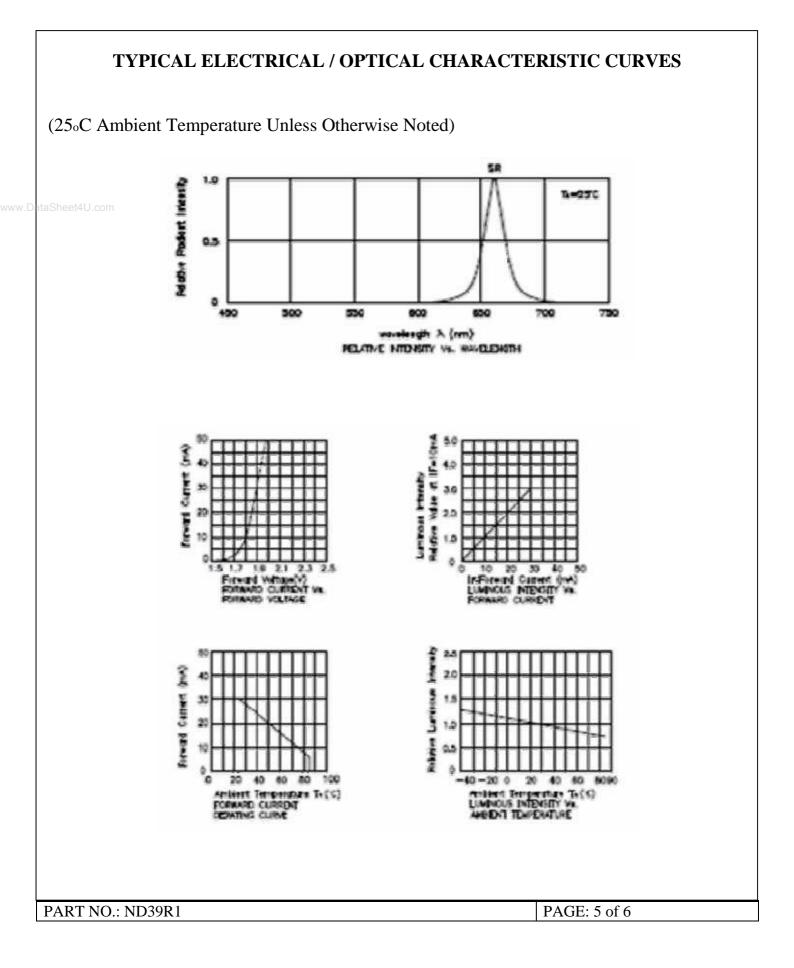
#### **ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25°C**

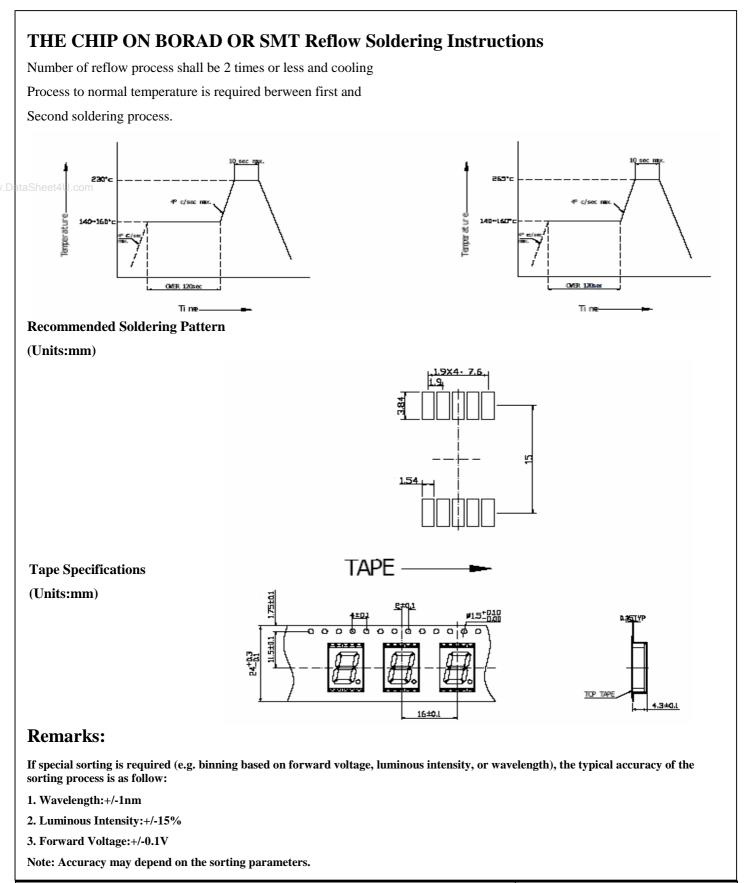
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	<b>TEST CONDITION</b>
Peak Emission Wavelength	λp		645		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		643		nm	IF=20mA
Forward Voltage Per Segment	VF		1.85	2.5	V	IF=20mA
Reverse Current Per Segment	Ir			10	μA	V <sub>R</sub> =5V

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

PART NO.: ND39R1

PAGE: 4 of 6





PART NO .: ND39R1

PAGE: 6 of 6