



**World Components Network Service Ltd**

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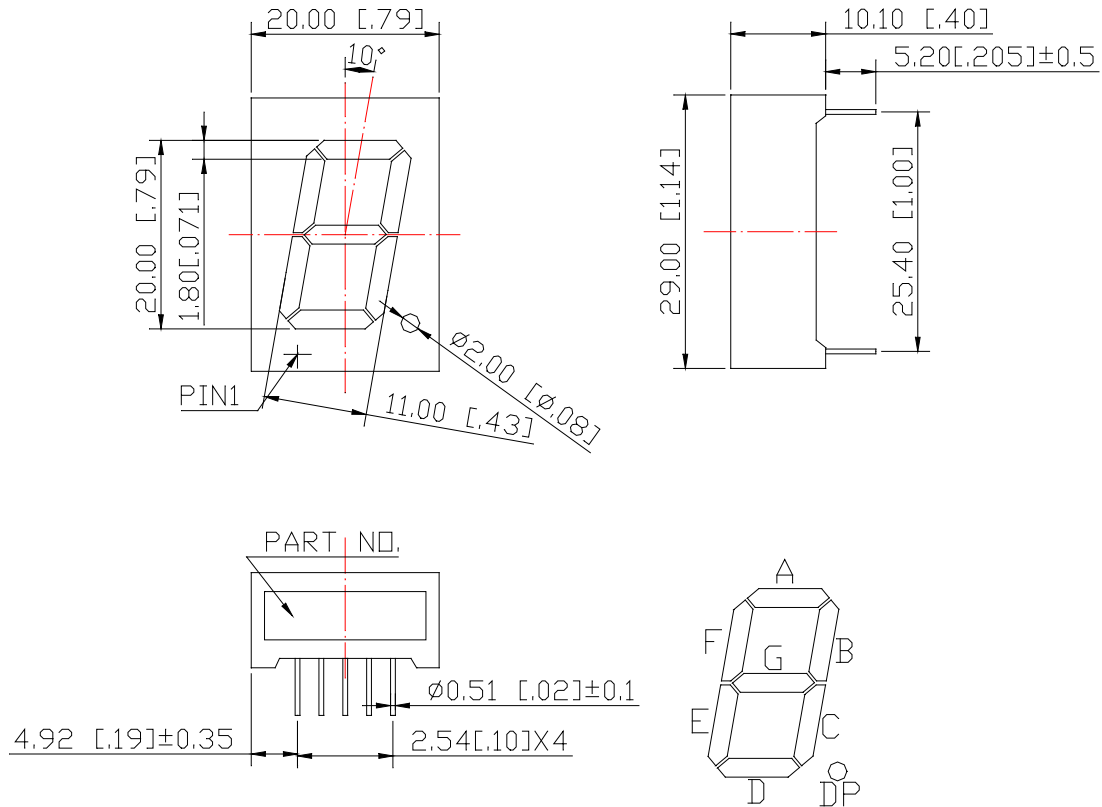
# **WCN1-0080SR-A51**

## **SPECIFICATION**

<b>WCN</b>			<b>CUSTOMER</b>
<b>NOTE:</b>			

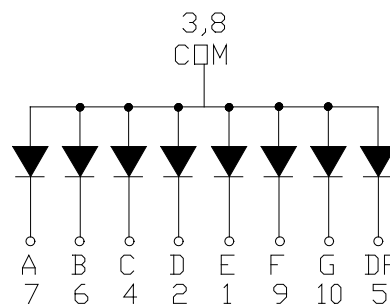
**REVISION: 01**

■ **Outer Dimension:**



**Notes:** Unless otherwise stated, The tolerance is  $\pm 0.25\text{mm}$

■ **Circuit Diagram:**



■ **Pin Connection:**

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode E	6	Cathode B
2	Cathode D	7	Cathode A
3	Common Anode	8	Common Anode
4	Cathode C	9	Cathode F
5	Cathode DP	10	Cathode G

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## ■ Features:

- High Reliability
- Color: Red
- Low Power Requirement

## ■ Description:

- Single Digit LED Display
- Digit Height: 20.0mm(0.80")
- Black Face and Encapsulation With Milky Segment

## ■ Absolute Maximum Rating (Ta=25°C):

Parameter	Symbol	Condition	Color	Rating	Units
Power Dissipation Per Segment	P <sub>d</sub>	—	Red	50	mW
Forward Current Per Segment	I <sub>F</sub>	—	Red	25	mA
Derating Of If Per Segment	△I <sub>F</sub>	Ta ≥ 25°C	Red	0.30	mA/°C
Peak Forward Current Per Segment	I <sub>FP</sub>	1/10 Duty 0.1ms	Red	100	mA
Reverse Voltage Per Segment	V <sub>R</sub>	—	Red	5	V
Operating Temperature Range	Topr	—	—	-35~+85	°C
Storage Temperature Range	Tstg	—	—	-35~+85	°C

## ■ Electrical/Optical Characteristics Rating(Ta=25°C):

Item	Symbol	Test conditions	Location	Color	Rating			Units
					Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Per Segment	Red	—	1.80	2.00	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	Per Segment	Red	—	—	100	μA
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =10mA	Per Segment	Red	5051	10000	—	μcd
Wave Length	λ <sub>P</sub>	I <sub>F</sub> =20mA	Per Segment	Red	—	660	—	nm
	λ <sub>D</sub>					643		
Spectral Line Half Width	△λ	I <sub>F</sub> =20mA	Per Segment	Red	—	20	—	nm
Luminous Intensity Matching Ratio (Segment To Segment)	I <sub>v-m</sub>	I <sub>F</sub> =20mA					2:1	

## ■ Luminous Intensity Sorting: (Luminous intensity tolerance: +/-10%)

Rank	Symbol	Condition	Min	Max	Unit
K	K	I <sub>F</sub> =10mA	5051	8000	μcd
L	L	I <sub>F</sub> =10mA	8001	12650	μcd
M	M	I <sub>F</sub> =10mA	12651	19990	μcd

## ■ Soldering Conditions: Soldering Temp. ≤ +260°C, Soldering Time. ≤ 3sec.

(at 1.6 mm Distance from The Case of Reflector Edge)