

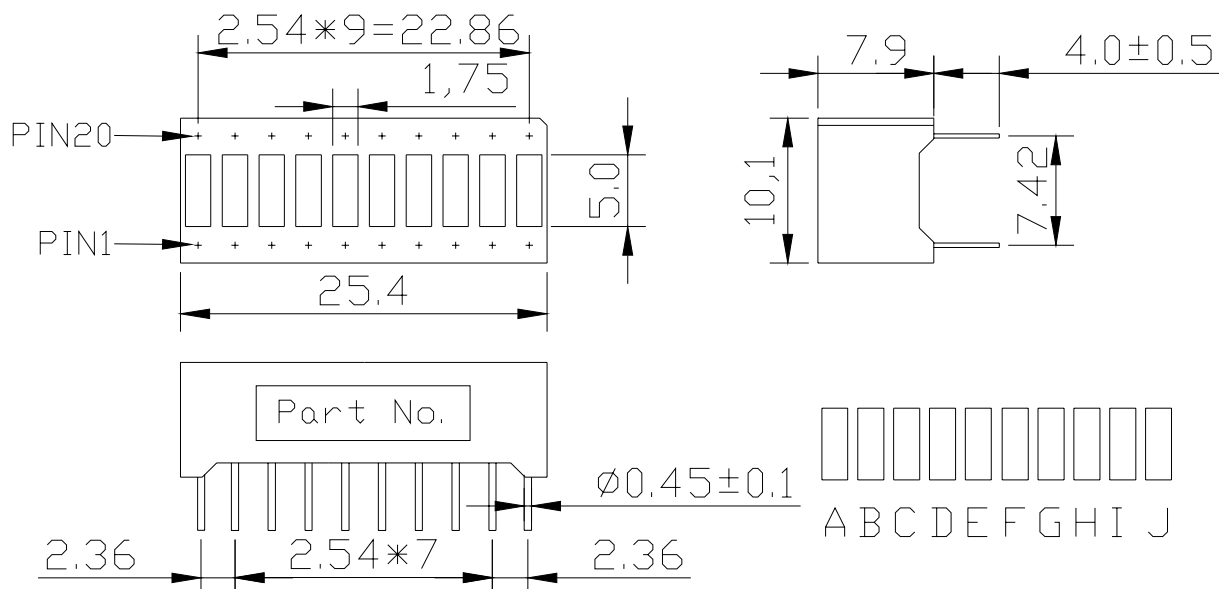
# **WCNLBA-SR12**

## **SPECIFICATION**

<b>WCN</b>			<b>CUSTOMER Confirmed</b>
<b>Prepared by</b>	<b>Checked by</b>	<b>Approved by</b>	

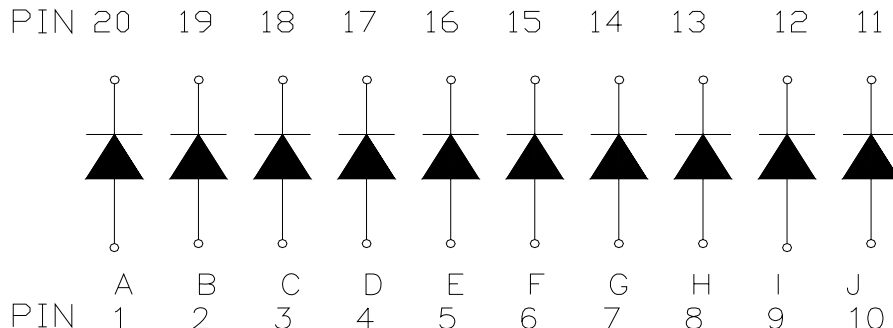
**REVISION: 01**

■ **Outer Dimension:**



**Note:** Unless otherwise stated, The tolerance is ±0.25 mm.

■ **Circuit Diagram:**



■ **Pin Connection:**

PIN NO.	CONNECTION	PIN NO.	CONNECTION		
1	Anode A	8	Anode H	15	Cathode F
2	Anode B	9	Anode I	16	Cathode E
3	Anode C	10	Anode J	17	Cathode D
4	Anode D	11	Cathode J	18	Cathode C
5	Anode E	12	Cathode I	19	Cathode B
6	Anode F	13	Cathode H	20	Cathode A
7	Anode G	14	Cathode G		

## ■ Features:

- High Reliability
- Color: Red
- Low Power Requirement
- Easy Assembly

## ■ Description:

- Ten Windows Display
- Digit Height 5.00mm(0.20" ) and Width 1.75mm(0.07" )
- Black Face and Milky Bar

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

Parameter	Symbol	Condition	Color	Rating	Units
Power Dissipation Per Bar	P <sub>d</sub>	—	Red	65	mW
Forward Current Per Bar	I <sub>F</sub>	—	Red	25	mA
Derating Of If Per Bar	△I <sub>F</sub>	Ta ≥ 25°C	Red	0.30	mA/°C
Peak Forward Current Per Bar	I <sub>FP</sub>	1/10 Duty 10KHz	Red	100	mA
Reverse Voltage Per Bar	V <sub>R</sub>	—	Red	5	V
Operating Temperature Range	Topr	—	—	-35~+85	°C
Storage Temperature Range	Tstg	—	—	-35~+85	°C

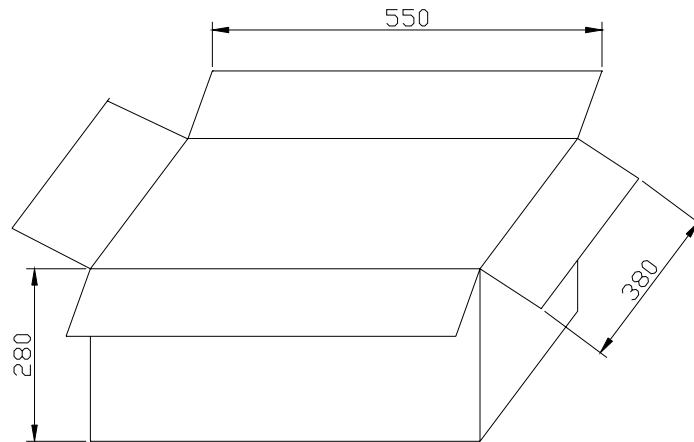
## ■ Electrical/Optical Characteristics Rating(Ta=25°C)

Item	Symbol	Test conditions	Location	Rating			Units
				Min.	Typ.	Max.	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =20mA	Per Bar	—	2.00	2.60	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =5V	Per Bar	—	—	100	μA
Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> =10mA	Per Bar	3201	6000	—	mcd
Wave Length	λ <sub>P</sub>	I <sub>F</sub> =20mA	Per Bar	—	638	—	nm
	λ <sub>D</sub>				633		
Spectral Line Half Width	△λ	I <sub>F</sub> =20mA	Per Bar	—	30	—	nm
Luminous Intensity Matching Ratio (Bar to Bar)	I <sub>v-m</sub>	I <sub>F</sub> =10mA				2:1	

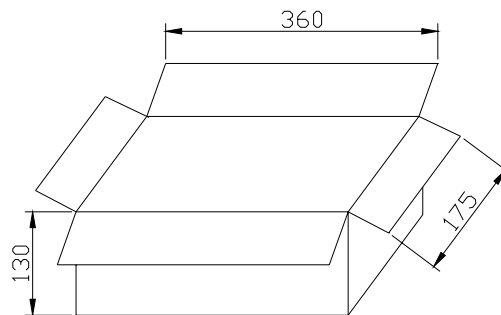
## ■ Luminous Intensity Sorting: (Luminous Intensity Tolerance is +/-10%)

Rank	Symbol	Condition	Min	Max	Unit
J	J	I <sub>F</sub> =10mA	3201	5050	μcd
K	K	I <sub>F</sub> =10mA	5051	8000	μcd
L	L	I <sub>F</sub> =10mA	8001	12650	μcd

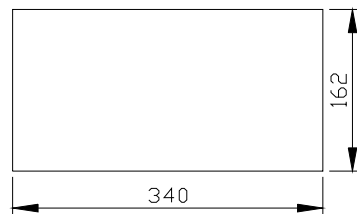
■ Soldering Conditions: Soldering Temp. ≤ +260°C Soldering Time. ≤ 3sec.  
(at 2mm Distance from The Case of Reflector Edge).

**Outer Carton Dimension:**

- Note: 1. An Outer carton contained six Inner cartons and 7020 PCS products.**  
**2. Unless otherwise stated, the tolerance is +5mm / -0mm.**

**Inner Carton Dimension:**

- Note: 1. An Inner carton contained 7 PCS Foam Board and 1170 PCS products.**  
**2. Unless otherwise stated, the tolerance is  $\pm 3$  mm.**

**Steamed Foam Dimension:**

- Note: 1. A Foam Board contained 168 PCS products.**  
**2. Unless otherwise stated, the tolerance is  $\pm 2$  mm.**