

# Ningbo Junsheng Electronics Co.,Ltd.

## 1.90 " (4.80mm)8x8 bi-color dot matrix Display

### Features:

- \*Ultra dot intensity
- \*Wide viewing angle
- \*Range of colors
- \*Gray face White segment
- \*RoHS compliant

### Available option:

- \*Alternative face and dot color
- \*Cropped terminal pins
- \*Available emitting color
- \*Low current version

### Electro/Optical Characteristics If=20mA Ta=25 C

Part Number Common Cathode	Part Number Common Anode	Emitting Colors	Peak Wavelength	Forward Voltage V		Luminous Intensity Iv	
				Typ.	Max.	Min.	Typ.
JSD-19881CURUG-21	JSD-19881DURUG-21	AlGaInP/GaAs Super Red	630	2.00	2.50	10.00	20.00
		AlGaInP/GaAs Yellow Green	574	2.10	2.50	10.00	15.00
JSD-19881CUEUG-21	JSD-19881DUEUG-21	AlGaInP/GaAs Ultra Red	625	2.00	2.50	40.00	80.0
		AlGaInP/GaAs Yellow Green	574	2.10	2.50	10.00	15.00
JSD-19881CUEUPG-21	JSD-19881DUEUPG-21	AlGaInP/GaAs Ultra Red	625	2.00	2.50	40.00	80.0
		InGaN/SiC Pure Green	525	3.30	3.80	150.00	200.00
Units			nm	V		mcd	

### Maximum Ratings Ta=25 C (Derate above 25 C)

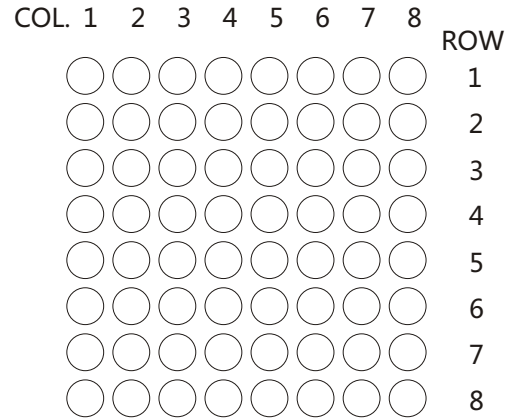
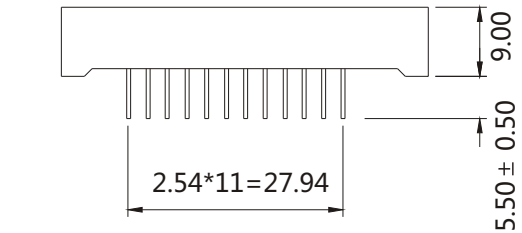
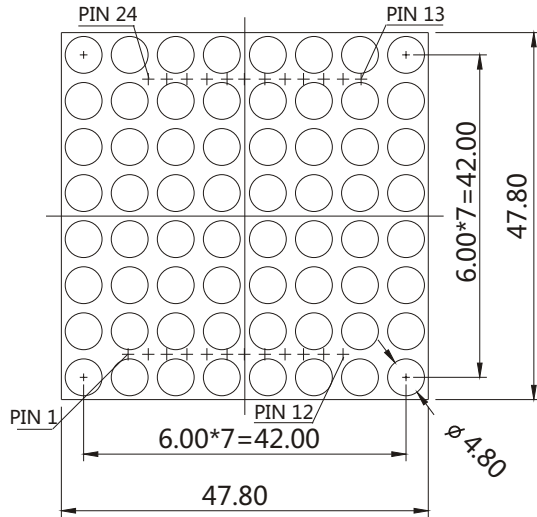
Characteristic	Test Condition	Symbol	UR	UE	UG	PG	Units
Pulse Forward Current Per Seg.	1/10 duty cycle 0.1ms Pulse width	I <sub>FP</sub>	100	100	100	100	mA
DC Forward Current Per Seg.		I <sub>F</sub>	30	30	30	30	mA
Reverse Current Per Seg.	V <sub>R</sub> =5V	I <sub>R</sub>	10	10	10	10	μA
Power Dissipation		P <sub>D</sub>	36	40	44	66	mW
Operating Temperature		T <sub>OPR</sub>	-40 to +80				°C
Storage Temperature		T <sub>TSG</sub>	-40 to +85				°C
Lead soldering temperature	1.60mm from body maximum 3 seconds		260				°C

Checked	Becky Sun	Approved	Jason Lou	Date	Aug/14/2013	PAGE 1 / 2
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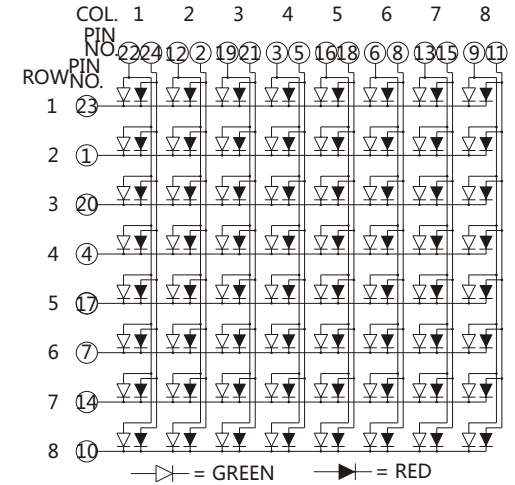
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### PACKAGE DIMENSION

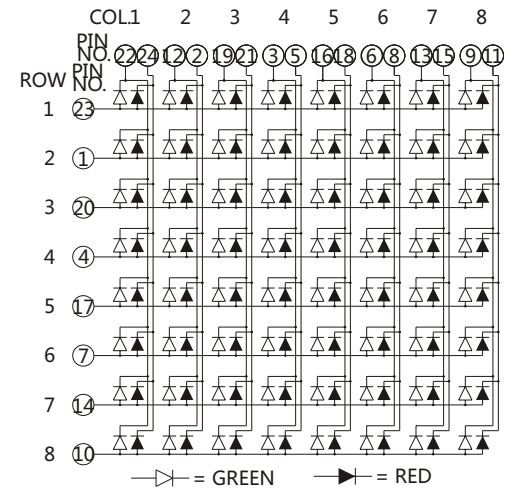


### INTERNAL CIRCUIT DIAGRAM

Row Cathode  
Column Anode  
JSD-19881Cxx



Row Anode  
Column Cathode  
JSD-19881Dxx



Tolerance  $\pm 0.25$ mm unless stated

Checked

Becky Sun

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Jason Lou

Date

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