

# **SPECIFICATIONS FOR LED AREA DISPLAYS**

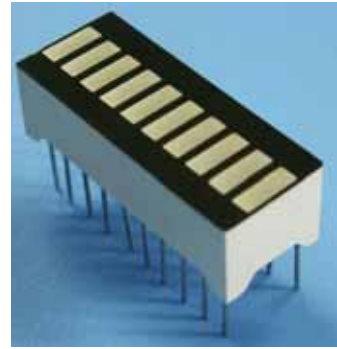
**10\*25 mm 10Bar Graph Display**

**[LBD1025S 10 -10 Series](#)**

**WENRUN OPTOELECTRONIC**

### Features:

- Emitting area : 5.0×1.74×10 ( mm )
- High efficiency, low power consumption.
- Excellent characters appearance.
- Solid state reliability.
- Categorized for luminous intensity.



**LBD1025SA10 -10**

### Descriptions:

- The LBD1025SA10 is 10 bar graph array displays.
- These devices are made with white segments and black surface.

### Applications:

- Instrument panels.
- Digital read out display.

**Absolute Maximum Rating ( Ta=25 )**

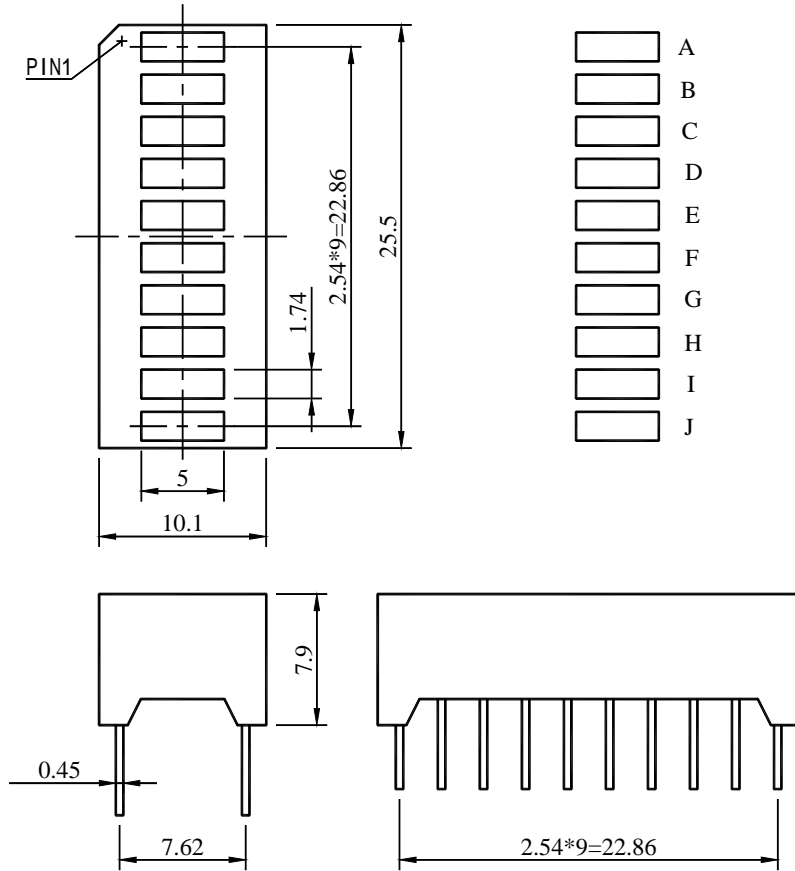
Parameter	Symbol	Super Red	Green	Yellow	Unit
Power Dissipation/Segment	$P_d$	50	60	60	mW
Peak Forward Current /Segment (Duty 1/10@ 1KHz)	$I_{FP}$	70	70	70	mA
Continuous Forward Current /Segment	$I_F$	20	20	20	mA
Recommend use current /Segment	$I_F$	5~10	5~10	5~10	mA
Reverse Voltage /Segment	$V_R$	5	5	5	V
Operating Temperature Range	$T_{opr}$	-25~ +75			
Storage Temperature Range	$T_{stg}$	-30 ~ +85			
Solder Temperature	$T_{sol}$	260 ± 5			

- Notes :** 1、 This is the limit current . It is not allowed to use when the product work continuously.  
 2、 It is recommended that the product is driven by TTL,CMOS.  
 3、 Soldering time 5 seconds.

**Electrical Optical Characteristics ( Ta=25 )**

Parameter	Symbol	Super Red		Green		Yellow		Unit	Test Condition
		Typ.	Max.	Typ.	Max.	Typ.	Max.		
Luminous Intensity /Segment	$I_V$	8.5	--	5.0	--	5.0	--	mcd	$I_F=10mA$
Forward Voltage /Segment	$V_F$	1.85	2.3	2.2	2.5	2.0	2.5	V	$I_F=20mA$
Reverse Current /Segment	$I_R$	--	50	--	50	--	50	uA	$V_R=5V$
Dominant Wavelength	$d$	645	--	565	--	585	--	nm	$I_F=20mA$
Spectral Line Half Width		30	--	30	--	30	--	nm	$I_F=20mA$

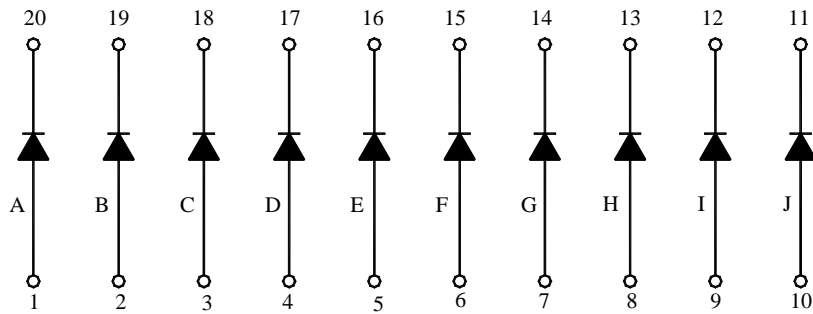
**Package Dimensions:**



**NOTES :**

- All dimensions are in millimetres (mm), Tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted.
- Specifications are subject to change without notice.

**Internal Circuit:**



**LBD1025SA10**