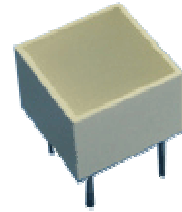




## 10 × 10 light bar

### ◆ Features:

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



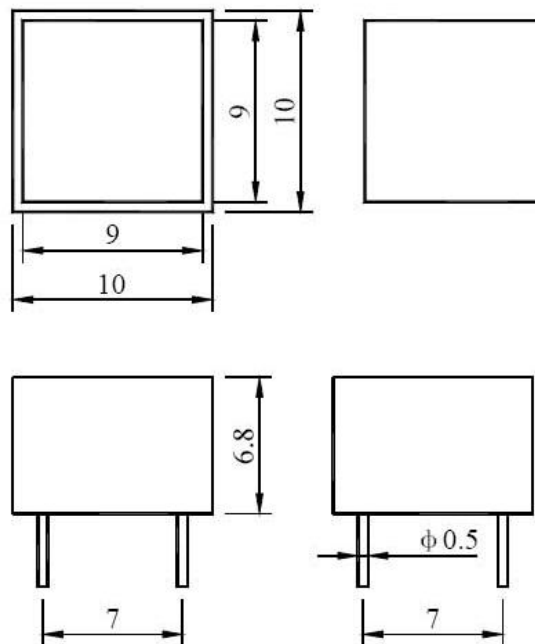
### ◆ Descriptions:

- The JYBD1010SA4 have uniform emitting light.
- These devices are made with white segments and white surface.

### ◆ Application

- Instrument panels.
- Digital read out display.

### ◆ Package Dimensions:

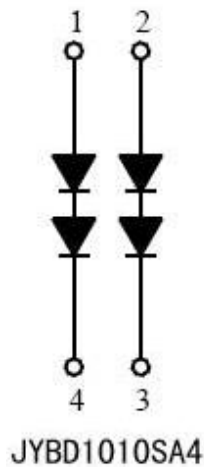




NOTES:

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



◆ Absolute Maximum Rating (  $T_a=25^\circ\text{C}$  )

Parameter	Symbol	Super Red	Green	Yellow	Unit
Power Dissipation	Pd	100	120	120	mW
Peak Forward Current (Duty 1/10@ 1KHz)	IFP	60	60	60	mA
Continuous Forward Current	IF	20	20	20	mA
Recommend use current	IF	5~10	5~10	5~10	mA
Reverse Voltage	VR	8	8	8	$^\circ\text{C}$
Operating Temperature Range	Topr	-25~ +105			$^\circ\text{C}$
Storage Temperature Range	Tstg	-30 ~ +105			$^\circ\text{C}$
Solder Temperature ③	Tsol	260 $\pm$ 5			$^\circ\text{C}$

Notes: Soldering time  $\leq 5$  seconds.



◆ **Electrical Optical Characteristics (Ta=25°C)**

Parameter	Symbol	Super Red		Green		Yellow		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity	IV	15	--	7.0	--	7.0	--	mcd	IF=10mA
Forward Voltage	VF	3.7	4.6	4.4	5.0	4.0	5.0	V	IF=20mA
Reverse Current	IR	--	50	--	50	--	50	uA	VR=5V
Dominant Wavelength	$\lambda_d$	645	--	565	--	585	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	30	--	30	--	30	--	nm	IF=20mA