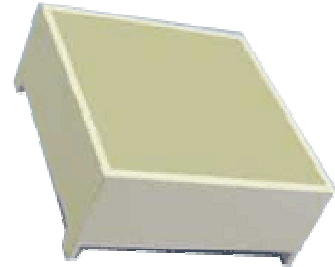




27 × 27mm light bar

◆ Features:

- Emitting area : 27 × 27mm
- High efficiency, low power consumption.
- Excellent characters appearance.
- Solid state reliability.
- Categorized for luminous intensity.



◆ Descriptions:

- The JYBD2727SA2 have uniform emitting light.
- These devices are made with white segments and white surface.

◆ Application

- Instrument panels.
- Digital read out display.

◆ Absolute Maximum Rating (Ta=25°C)

(JYBD2727SA2)

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 /Segment	IF	20	20	20	mA
Recommend use current /Segment	IF	5~10	5~10	5~10	mA
Reverse Voltage	VR	8	8	8	°C
Operating Temperature Range	Topr	-25~ +75			°C
Storage Temperature Range	Tstg	-30 ~ +85			°C
Solder Temperature ③	Tsol	260±5			°C

Notes: Soldering time ≤ 5 seconds.

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

(JYBD2727SA2)

Parameter	Symbol	Super Red		Green		Yellow		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity	IV	5.0	--	2.5	--	2.5	--	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	λ_d	645	--	565	--	585	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	30	--	30	--	30	--	nm	IF=20mA

◆ Absolute Maximum Rating (Ta=25℃)

(JYBD2727SA4)

Parameter	Symbol	Super Red	Green	Yellow	Unit
Power Dissipation	Pd	100	120	120	mW
Peak Forward Current (Duty 1/10@ 1KHz)	IFP	120	120	120	mA
Continuous Forward Current /Segment	IF	40	40	40	mA
Recommend use current /Segment	IF	10~20	10~20	10~20	mA
Reverse Voltage	VR	8	8	8	℃
Operating Temperature Range	Topr	-25~ +75			℃
Storage Temperature Range	Tstg	-30 ~ +85			℃
Solder Temperature ③	Tsol	260±5			℃

Notes: Soldering time ≤ 5 seconds.



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

(JYBD2727SA4)

Parameter	Symbol	Super Red		Green		Yellow		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity	IV	10	--	5.0	--	5.0	--	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	λd	645	--	565	--	585	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	30	--	30	--	30	--	nm	IF=20mA

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

(JYBD2727SC4)

Parameter	Symbol	Super Red	Green	Yellow	Unit
Power Dissipation	Pd	190	220	220	mW
Peak Forward Current (Duty 1/10@ 1KHz)	IFP	200	200	200	mA
Continuous Forward Current /Segment	IF	80	80	80	mA
Recommend use current /Segment	IF	30~40	30~40	30~40	mA
Reverse Voltage	VR	5	5	5	℃
Operating Temperature Range	Topr	-25~ +75			℃
Storage Temperature Range	Tstg	-30 ~ +85			℃
Solder Temperature ③	Tsol	260±5			℃

Notes: Soldering time ≤ 5 seconds.

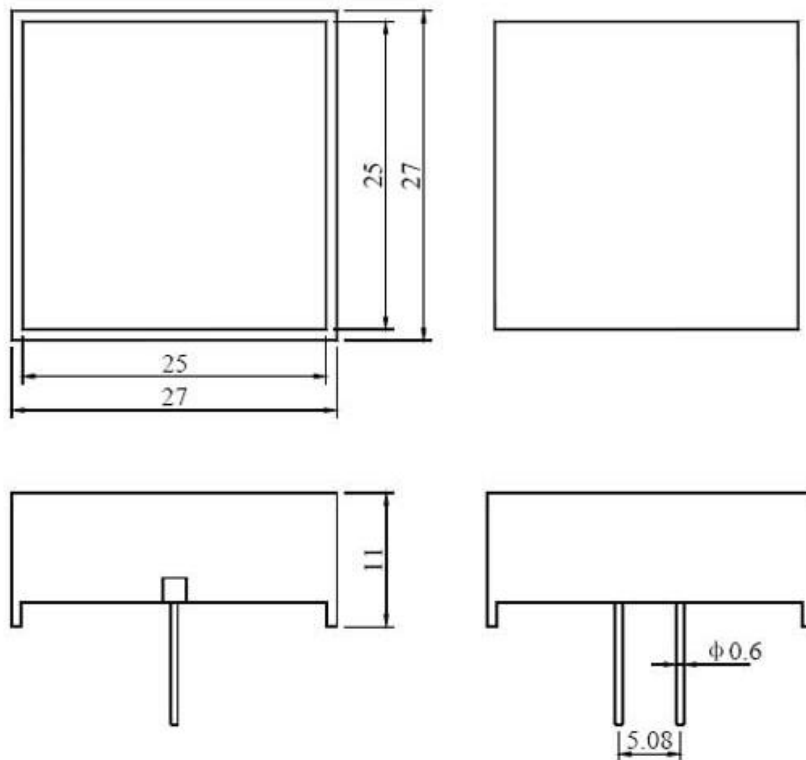


◆ **Electrical Optical Characteristics (Ta=25°C)**

(JYBD2727SC4)

Parameter	Symbol	Super Red		Green		Yellow		Unit	Test Condition
		Typ.	Max	Typ.	Max	Typ.	Max		
Luminous Intensity	IV	10	--	5.0	--	5.0	--	mcd	IF=10mA
Forward Voltage	VF	1.85	2.3	2.2	2.5	2.0	2.0	V	IF=20mA
Reverse Current	IR	--	50	--	50	--	50	uA	VR=5V
Dominant Wavelength	λd	645	--	565	--	585	--	nm	IF=20mA
Spectral Line Half Width	$\Delta \lambda$	30	--	30	--	30	--	nm	IF=20mA

◆ **Package Dimensions:**





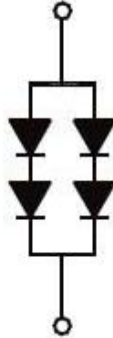
NOTES:

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

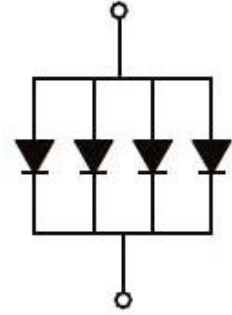
◆ Internal Circuit



JYBD2727SA2



JYBD2727SA4



JYBD2727SC4