



# 中山市晶明光电科技有限公司

ZHONSHAN SILSMART OPTOELECTRONICS CO., LTD.

Device Number: JMM-150-006

REV: 1.0

## 1. 90mm 8\*8 Dot Matrix Displays

Model No.: **JMM-788BS**

ECN: Page: 1/4

### ■ Features :

- Large emitting dot 1.90mm diameter.
- Low power/high brightness.

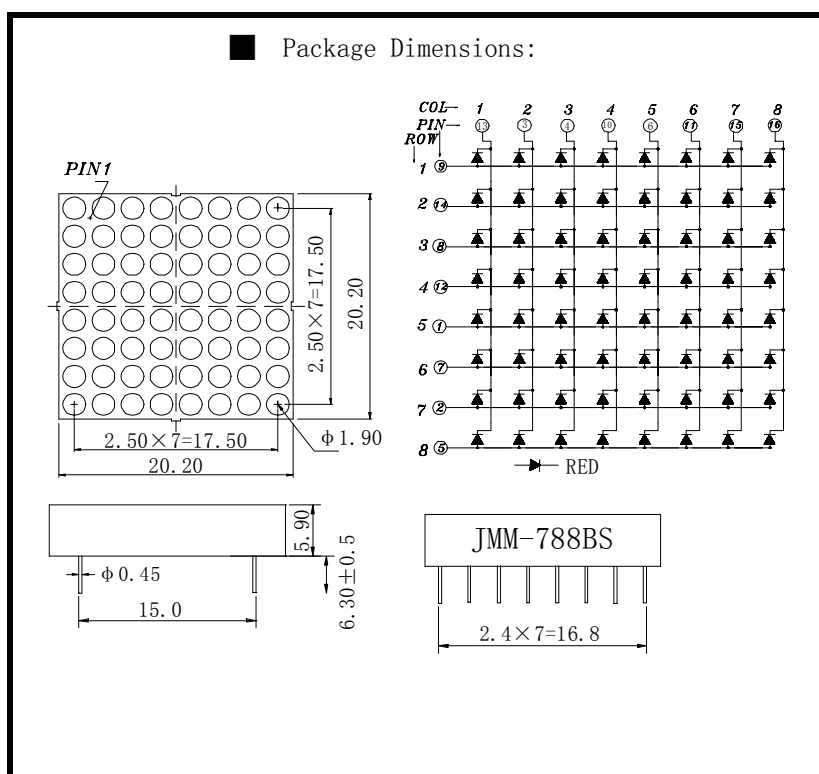
### ■ Descriptions :

- The 788 series is a large emitting area(1.90mm diameter)LED sources configured in a 64 dots 8\*8 matrix array.
- These devices are made with water clear dots and Black surface.

### ■ Applications:

- Instrument panels
- Digital read out display

### ■ Package Dimensions:



- Notes:**
1. All dimensions are in millimetres
  2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
  3. Tolerances unless Dimension  $\pm 0.25\text{mm}$ .

PART NO.	Chip	
	Material	Emitted Color
JMM-788BS	GaAlAs	Super Bright Red

Addree:4/F. , Bld. C1, Fuwan Industrial Zone, Shiqi, Zhongshan, Guangdong, P. R. China

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Prepared by: KEVIN

Prepared date: 04-8-14



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## Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	30	mA
Power Dissipation	Pd	120	mW
Peak Forward Current	IF(Peak)	180	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Reverse Voltage	VR	5	V

Note: \*1:IFP Conditions —Pulse Width ≤ 1msec and Duty ≤ 1/10.

\*2:Soldering time ≤ 5 seconds.

## Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	$\lambda_p$	/	660	/	nm	IF= 20 mA
Dominant Wavelength	$\lambda_d$	/	643	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	/	20	/	nm	IF= 20 mA
Forward Voltage	VF	/	1.8	/	V	IF= 20 mA
Luminous Intensity	IV	200	/	/	mcd	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V

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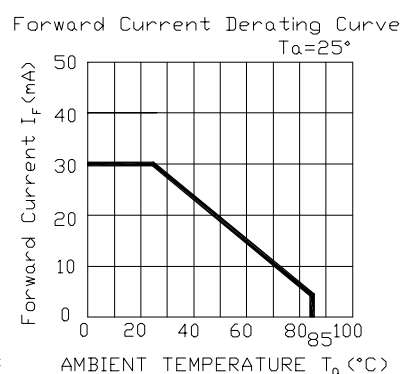
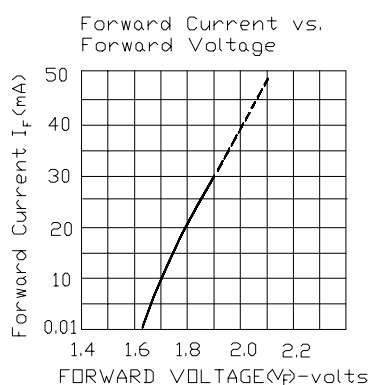
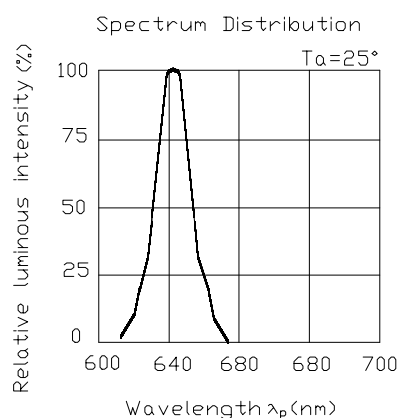
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### ■ Typical Electro-Optical Characteristic Curves:



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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC		0/1
2	Temperature Cycle	H : +100°C 15min ∫ 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature/ High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1

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