



3. 75mm 8*8 Dot Matrix Displays

Model No.: **JMM-1588BSG**

ECN: _____

Page: 1/4

■ Features :

- Large emitting dot 3.75mm diameter.
- Low power/high brightness.

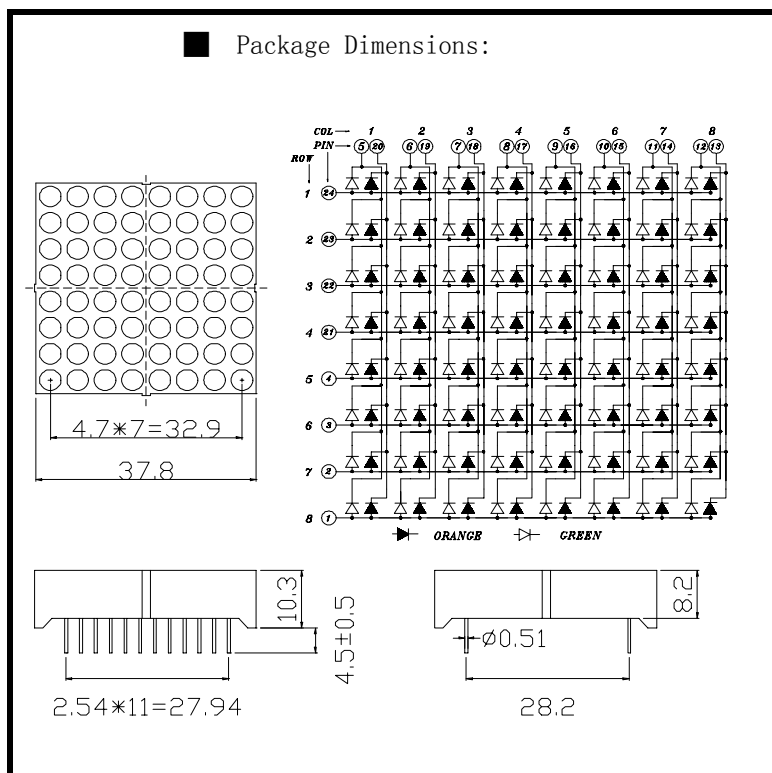
■ Descriptions :

- The 1588 series is a large emitting area(3.75mm diameter)LED sources configured in a 64 dots 8*8 matrix array.
- These devices are made with white 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 ±0.25mm.

PART NO.	Chip	
	Material	Emitted Color
JMM-1588BSG	GaAlAs	Super Red
	GaP	Super Green

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Prepared by: Heron

Prepared date: 04-2-20



中山市晶明光电科技有限公司

ZHONSHAN SILSMART OPTOELECTRONICS CO., LTD.

Device Number: JMM-150-001

REV: 1.0

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ECN: _____ Page: 2/4

■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit	
Forward Current	IF	R	30	mA
		G	30	
Power Dissipation	Pd	R	120	mW
		G	100	
Peak Forward Current	IF (Peak)	R	180	mA
		G	160	
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 \leq 1msec and Duty \leq 1/10.

*2:Soldering time \leq 5 seconds.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ_p	R	/	660	/	nm IF= 20 mA
		G	/	565	/	
Dominant Wavelength	λ_d	R	/	643.0	/	nm IF= 20 mA
		G	/	570.0	/	
Spectrum Radiation Bandwidth	$\Delta\lambda$	R	/	20	/	nm IF= 20 mA
		G	/	30	/	
Forward Voltage	VF	R	/	1.8	/	V IF= 20 mA
		G	/	2.0	/	
Luminous Intensity	IV	R	200	/	/	mcd IF= 20 mA
		G	250	/	/	
Reverse Current	IR	/	/	10	μ A	VR= 5 V

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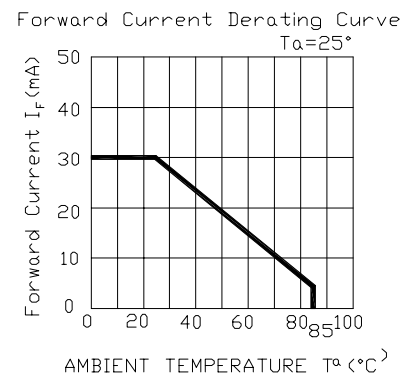
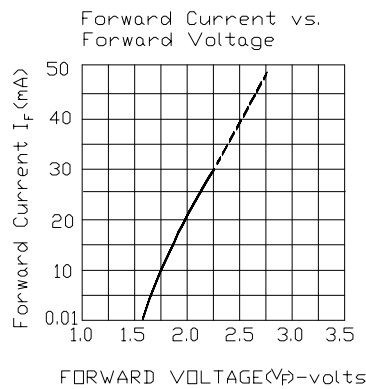
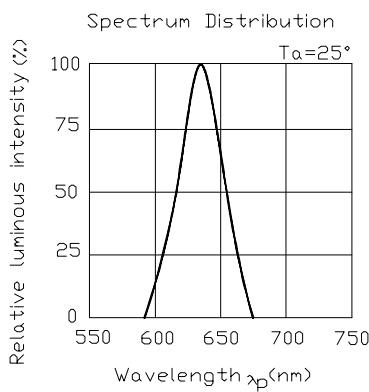
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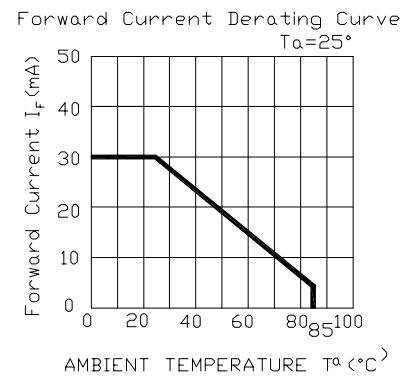
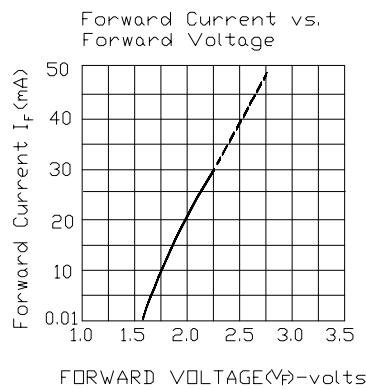
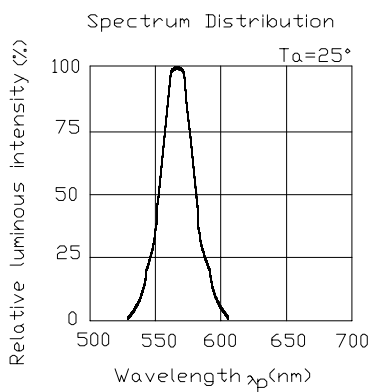
Page: 3/4

■ Typical Electro-Optical Characteristic Curves:

(R)



(G)



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Page: 4/4

■ 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	76 PCS	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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