



中山市晶明光电科技有限公司
ZHONSHAN SILSMART OPTOELECTRONICS CO., LTD.

Device Number: JMDS-050-009

REV: 1.0

0.40" Four Digit Displays

Model No.: JMF-4041BS

ECN: _____ Page: 1/4

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Descriptions :

- The 4041 series is a large 10.16 mm (0.40") high seven segment display designed for viewing distances up to 5 meters.
- These displays provide excellent reliability in bright ambient light.
- These devices are made with white diffused segments and black surface.

PART NO.	Chip	
	Material	Emitted Color
JMF-4041BS	GaAlAs	Super Red

Address: 4/F., Bld. C1, Fuan Industrial Zone, Shi qi, Zhongshan, Guangdong, P. R. China

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Prepared by: Kevin

Prepared date: 04-8-27

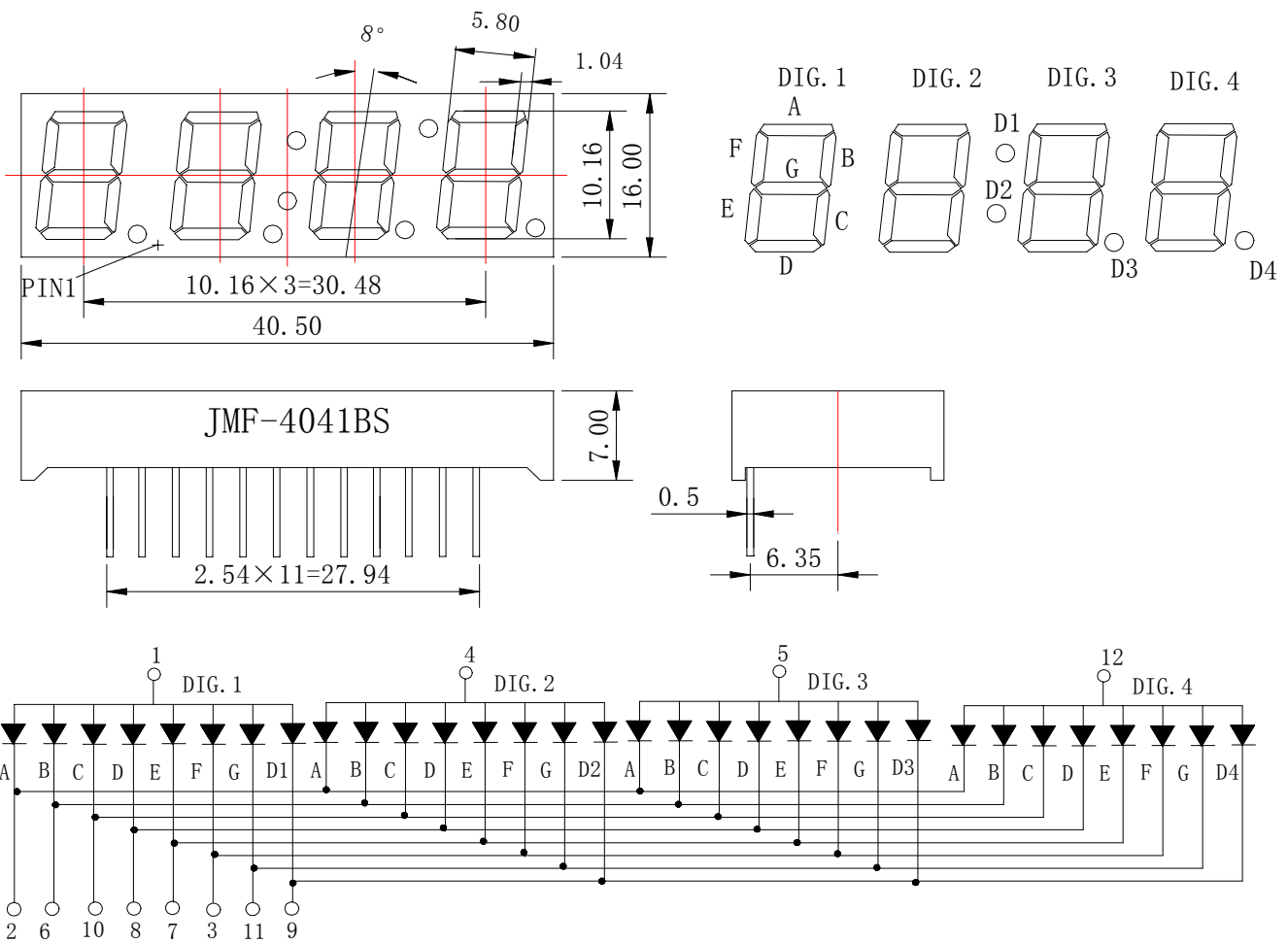


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■ Package Dimensions:



- Notes:**
1. All dimensions are in millimetres
 2. Tolerances unless Dimension $\pm 0.25\text{mm}$.

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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 \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	/	660.0	/	nm	IF= 20 mA
Dominant Wavelength	λ_d	/	643.0	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	/	20	/	nm	IF= 20 mA
Forward Voltage	VF	/	1.85	/	V	IF= 20 mA
Luminous Intensity	IV	150	/	/	mcd	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V

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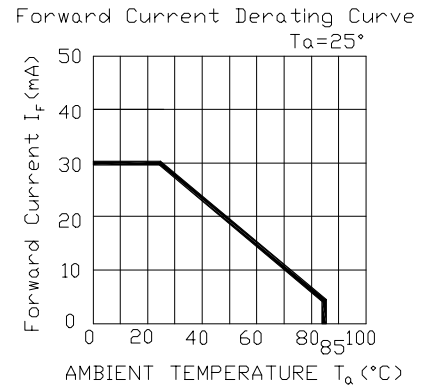
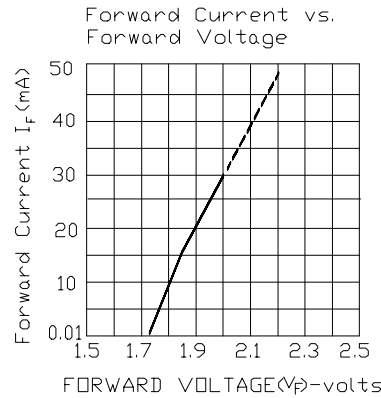
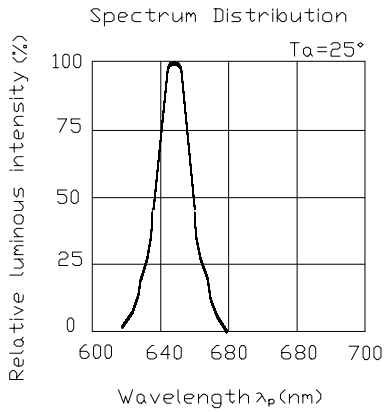
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■ Typical Electro-Optical Characteristic Curves:



■ 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 f 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min f 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 I _F = 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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