

DOT MATRIX DISPLAY

JZM15882AGR-GW

DATA SHEET

DOCUMENT NO.: WI-RD-LDS-15882AGR-GW

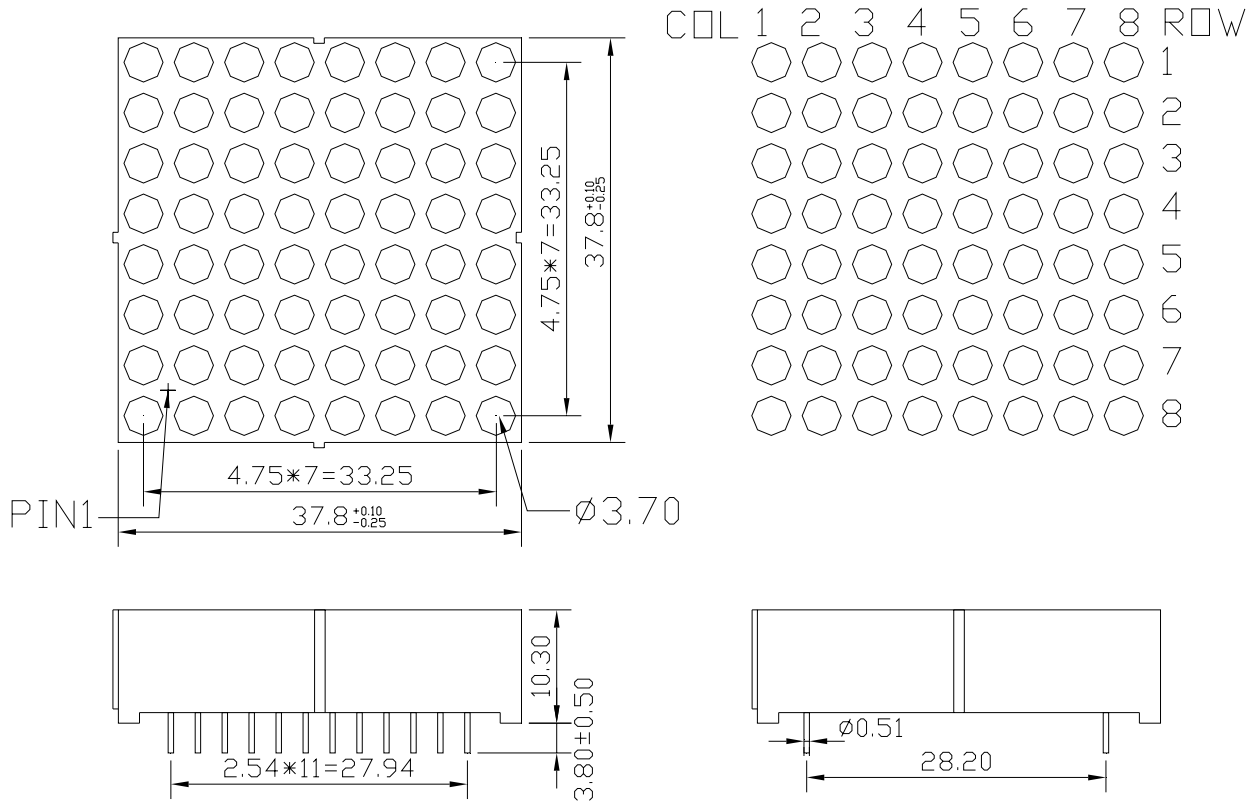
RELEASE DATE: 2007-4-20

VERSION: A/0

RD No.: JZD20070420001

PART NO.: JZM15882AGR-GW

Package Dimensions



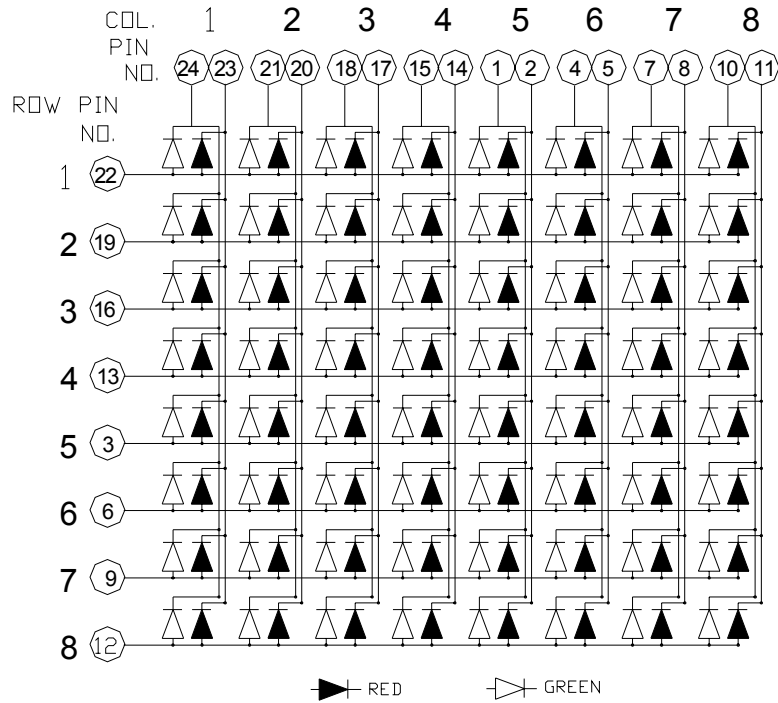
Notes:

1. All dimension are in millimeters and(Inch)tolerance is ± 0.25 mm unless otherwise noted.
2. Specifications are subject to change without notice.

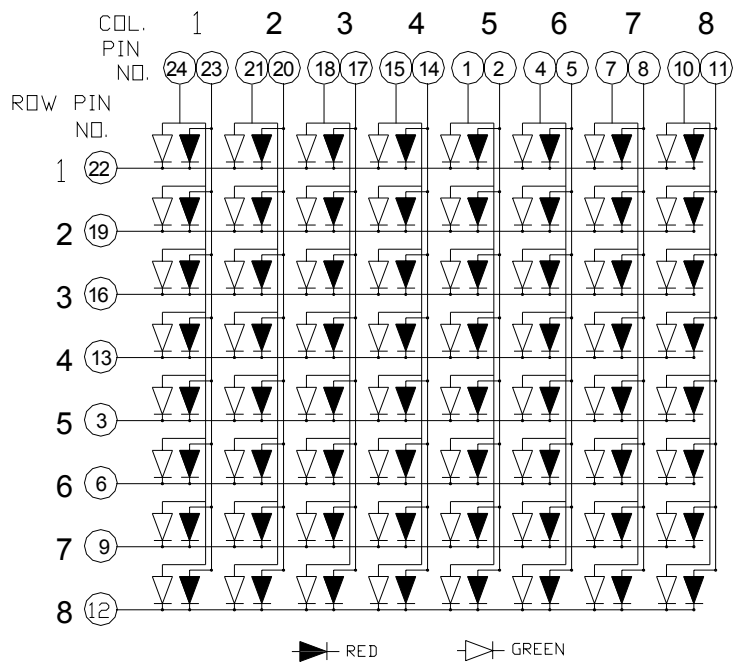
PART NO.: JZM15882AGR-GW

Internal Circuit Diagram

JZM15882AGR-GW



JZM15882BGR-GW



PART NO.: JZM15882AGR-GW

Electrical Connection

PIN NO.	JZM15882AGR-GW	PIN NO.	JZM15882BGR-GW
1	Cathode Column 5(Green)	1	Anode Column 5(Green)
2	Cathode Column 5(Red)	2	Anode Column 5(Red)
3	Anode Row 5	3	Cathode Row 5
4	Cathode Column 6(Green)	4	Anode Column 6(Green)
5	Cathode Column 6(Red)	5	Anode Column 6(Red)
6	Anode Row 6	6	Cathode Row 6
7	Cathode Column 7(Green)	7	Anode Column 7(Green)
8	Cathode Column 7(Red)	8	Anode Column 7(Red)
9	Anode Row 7	9	Cathode Row 7
10	Cathode Column 8(Green)	10	Anode Column 8(Green)
11	Cathode Column 8(Red)	11	Anode Column 8(Red)
12	Anode Row 8	12	Cathode Row 8
13	Anode Row 4	13	Cathode Row 4
14	Cathode Column 4(Red)	14	Anode Column 4(Red)
15	Cathode Column 4(Green)	15	Anode Column 4(Green)
16	Anode Row 3	16	Cathode Row 3
17	Cathode Column 3(Red)	17	Anode Column 3(Red)
18	Cathode Column 3(Green)	18	Anode Column 3(Green)
19	Anode Row 2	19	Cathode Row 2
20	Cathode Column 2(Red)	20	Anode Column 2(Red)
21	Cathode Column 2(Green)	21	Anode Column 2(Green)
22	Anode Row 1	22	Cathode Row 1
23	Cathode Column 1(Red)	23	Anode Column 1(Red)
24	Cathode Column 1(Green)	24	Anode Column 1(Green)

Absolute Maximum Rating at=Ta=25□

Parameter	Symbol	Ratings	UNIT
		SGM	
Forward Current Per Chip	IF	30	mA
Peak Forward Current Per Chip*1	IFP	100	mA
Power Dissipation Per Chip	PD	100	mW
Reverse Current Per Any Chip	Ir	50	uA
Electrostatic Discharge*2	ESD	1000	V
Operating Temperature	Topr	-25~+85	□
Storage Temperature	Tstg	-25~+85	□

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260□

*1:Duty 1/10,0.1ms Pulse With

*2:Static Electricity or power surge will damage the LED. Use of a conductive wrist band or anti-electrosatic glove is recommended when handing these LED. All devices, equipment and machinery must be properly grounded.

PART NO.: JZM15882AGR-GW

Part selection And Application Information(Ratings at 25□)

PART NO.	COLOR □ EPOX Y/SURF ACE□	CHIP		Common cathode or anode	WD (nm)	Electrical				IV- M
		Material	Emitted			Vf(v)		Iv(mcd)		
						Typ.	Max.	Min.	Typ.	
JZM15882AGR-GW	WHITE DIFFUS E/GRAY	GaP/ GaP	GREEN / RED	Common anode	572/ 643	2.1/1. 87	2.4/2 .4	11/9	12.5 /10. 5	1 □ 1.1

Note:1.The forward voltage data did not including±.01V testing tolerance.

2.The luminous intensity data did not including±15% testing tolerance.

Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=20mA
Peak Wavelength	WP	nm	If=20mA
Dominant Wavelength	WD	nm	If=20mA
Spectral Line Half-Width	▲W	nm	If=20mA
Reverse Current Any Chip	Ir	μA	If=20mA
Luminous Intensity Matching Ratio	IV-M		

Typical Optical-Electronic Characteristic Curves

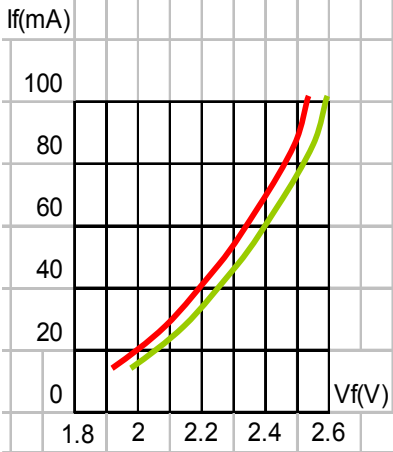
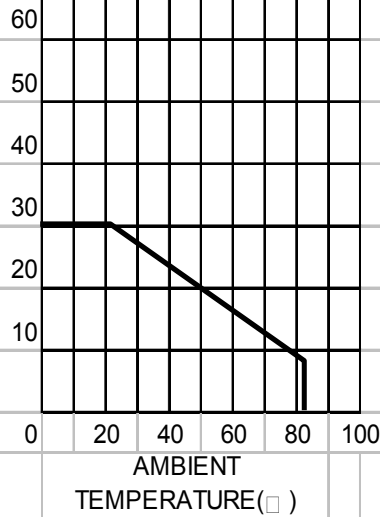


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

Forward Current@20mA



AMBIENT TEMPERATURE(°C)

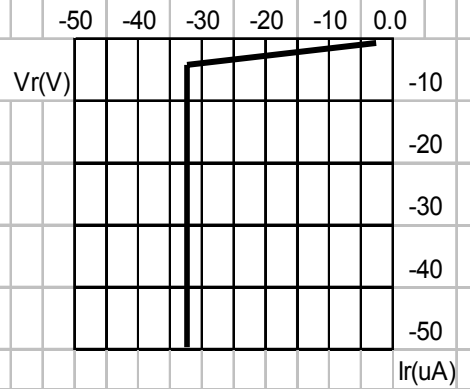


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

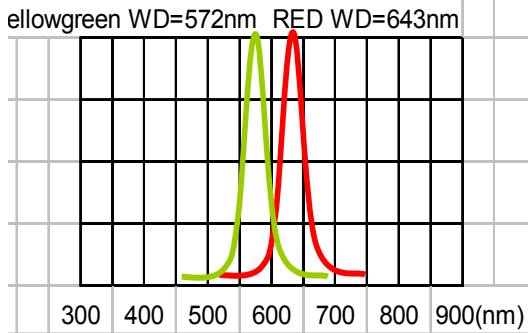


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

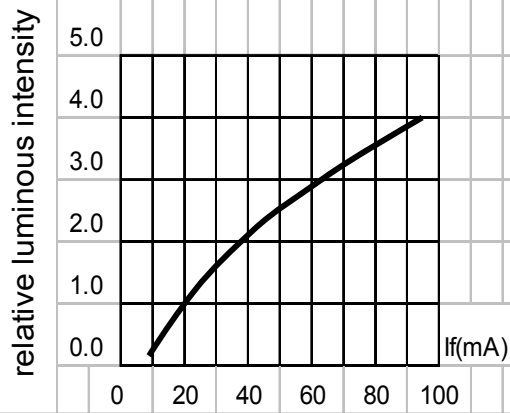


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD

Soldering Condition (Pb-Free)

1. Iron:

Soldering Iron: 30W Max

Temperature 350°C Max

Soldering Time: 3 Seconds Max (One time only)

Distance: Solder Temperature 1/16Inch Below Seating Plane

For 3 Seconds At 260°C

2. Wave Soldering Profile

Dip Soldering

Preheat: 120°C Max

Preheat time: 60 seconds Max

Ramp-up

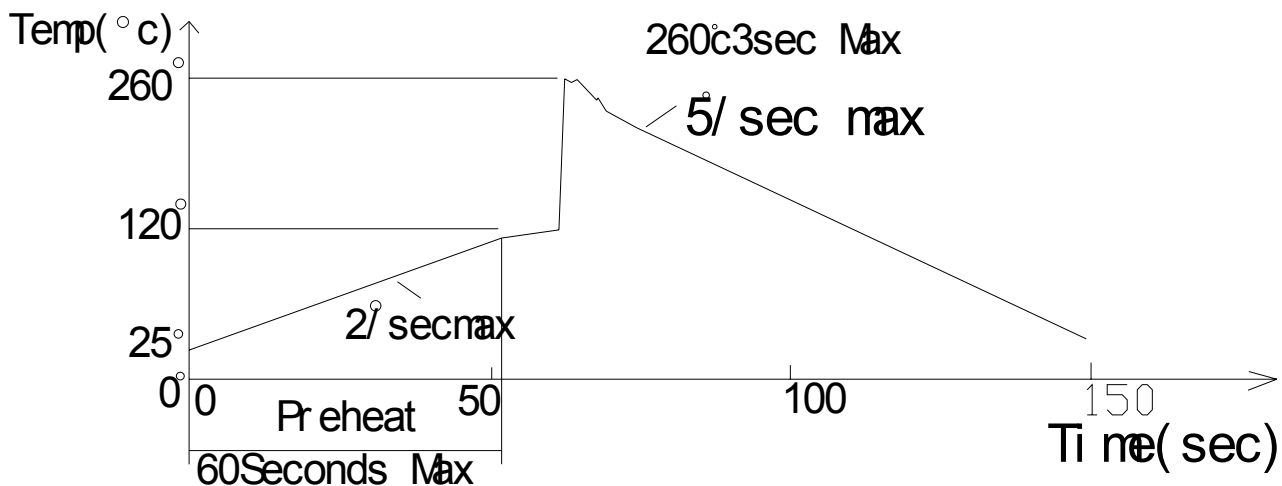
2°C/sec(max)

Ramp-Down: -5°C/sec(max)

Solder Bath: 260°C Max

Dipping Time: 3 seconds Max

Distance: Solder Temperature 1/16Inch Below Seating Plane for 3 Seconds At 260°C



Note: 1. Wave solder should not be made more than one time.

2. You can just only select one of the soldering conditions as above.

Reliability Test:

Test Item	Standard Test Method	Test Condition	Description
Operating Life Test	JIS C7021:B-1 MIL-STD-750:1026 MIL-STD-883:1005	1. Under Room Temperature 2. If=10 mA 3. t=1000hrs(-24hrs,+72hrs)	This test is conducted for the purpose of deteming the resistance of a part in electrical and themal stressed.
High Temperature Storage Test	JIS C 7021:B-10 MIL-STD-883:1008	1. Ta=105□±5□ 2. t=1000hrs(-24hrs,+72hrs)	The purpose of this is the resistance of the device which is laid under condition of high temperature for hours.
Low Temperature Storage Test	JIS C 7021:B-12	1. Ta=-40□±5□ 2. t=1000hrs(-24hrs,+72hrs)	The purpose of this is the resistance of the device which is laid under condition of low temperature for hours.
High Temperature High Humidity Test	JIS C 7021:B-11 MIL-STD-202:103B	1. Ta=65□±5□ 2. RH=90%~95% 3. Tt=240hrs±2hrs	The purpose of this id the resistance of the device which is laid under condition of low temperature for hours.
Thermal Shock Test	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	1. Ta=105□±5□&-40□±5□ (10min)(10min)	The purpose of this is the resistance of the device to sudden extreme changes in high and low temperature.
Solder Resistance Test	JIS C 7021:A-1 MIL-STD-202:210A MIL-STD-750:2031	1.T.Sol=260□±5□ 2.Dwell time=10±1sec.	This test intended to determine the thermal characteristic resistance of the device to sudden exposures at ex treme changes in temperature when soldering the lead wire.
Solderability Test	JIS C 7021:A-2 MIL-STD-202:208D MIL-STD-750:2026 MIL-STD-883:2003	1.T.Sol=230□±5□ 2.Dwell time=5±1sec.	This test intended to see soldering well performed or not.

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