



漳州市晶艺佳电子制造有限公司

ZhangZhou Jingyijia Electronic Manufacture Co.,Ltd.

ULM-1088AX/BX

1.5" Dot Matrix Display

Features:

1. 1.5 inch Digit Height.
2. Continuous uniform segments.
3. Low power requirement.
4. Excellent characters appearance.
5. Solid state reliability.
6. Categorized for luminous intensity.
7. Duplex drive common anode or cathode.

Description:

The ULM-1588AX/BX is a 1.5" high Dot Matrix Display.

1. The High Red(**S**) source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
The Yellow Green(**G**) source color devices are made with Gallium Phosphide Green light Emitting Diode.
The Yellow(**Y**) source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.
The Super Bright Red(**SR**) source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.
2. The product have a black/gray/red face and white/red/green/Yellow/water clear lens.



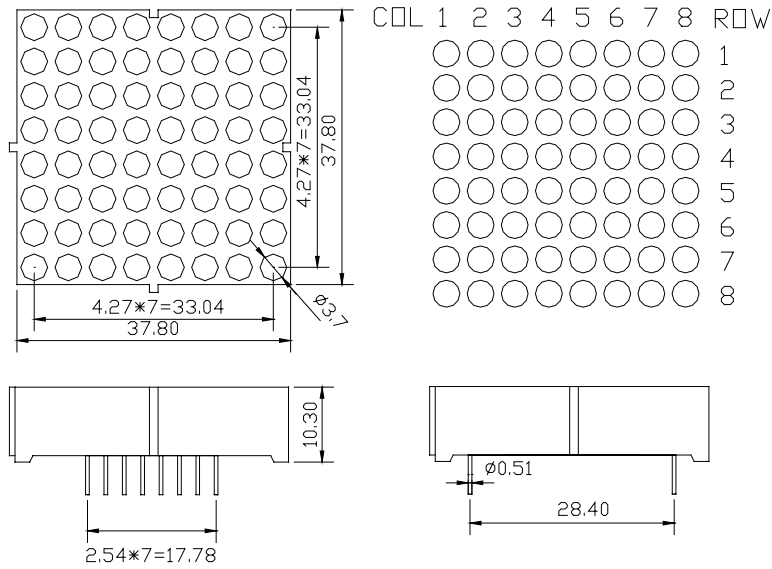
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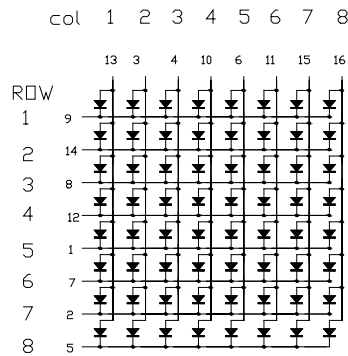
1.5" Dot Matrix Display

Package Dimensions:

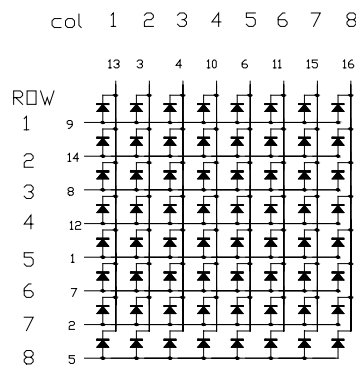


Internal Circuit Diagram:

1588AX



1588BX





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Selection Guide

Part No.	Dice	Iv(mcd)		Description
		Min.	Typ.	
ULM-1588AS	HIGH RED(GaAsP/GaP)	10	12	Com Cathode
ULM-1588BS				Com Anode
ULM-1588AG	YELLOW GREEN (GaP)	13	16	Com Cathode
ULM-1588BG				Com Anode
ULM-1588AY	YELLOW(GaAsP/GaP)	11	14	Com Cathode
ULM-1588BY				Com Anode
ULM-1588ASR	SUPER BRIGHT RED (GaAlAs)	30	40	Com Cathode
ULM-1588BSR				Com Anode

Electrical/Optical Characteristics at Ta=25

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
peak	Peak Wavelength	High Red Yellow Green Yellow Super Bright Red	640 565 590 660		nm	IF=20mA
D	Dominate Wavelength	High Red Yellow Green Yellow Super Bright Red	638 568 588 640		nm	IF=20mA
1/2	Spectral Line Halfwidth	High Red Yellow Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Red Yellow Green Yellow Super Bright Red	15 15 20 45		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Red Yellow Green Yellow Super Bright Red	1.8 2.2 2.0 1.8	2.2 2.4 2.2 2.3	V	IF=20mA
IR	Reverse Current	All		10	uA	VR=5V

Absolute Maximum Ratings at Ta=25

Parameter	High Red	Yellow Green	Yellow	Super Bright Red	Units
Power Dissipation	105	105	105	100	mW
DC Forward Current	30	25	25	25	mA
Peak Forward Current[1]	150	150	150	150	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature	-40 To +85				
Lead Solder Temperature[2]	260 For 5 Seconds				

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base



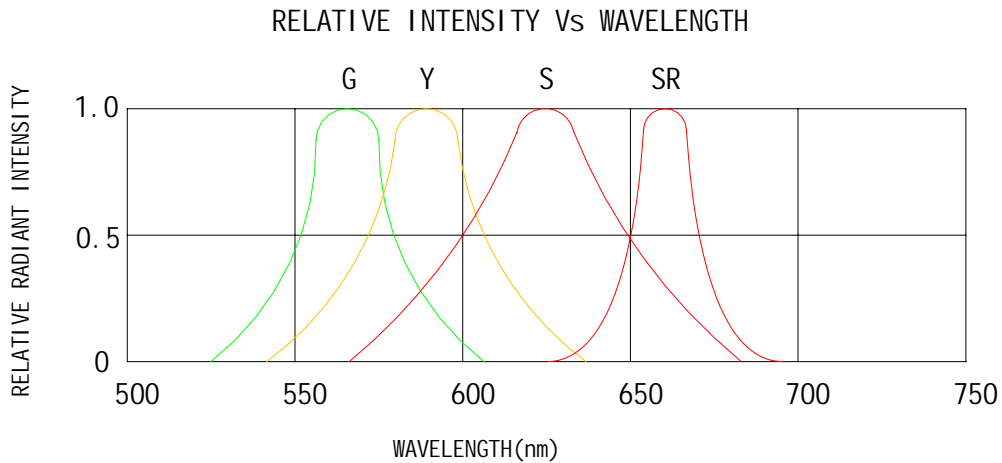
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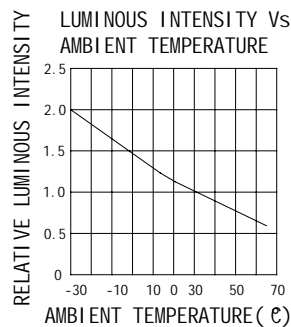
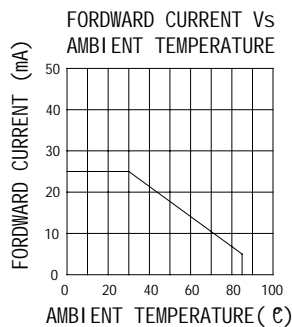
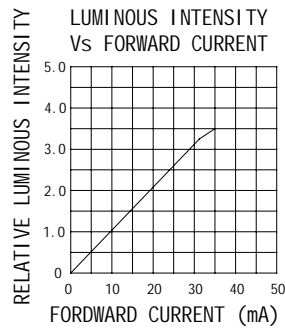
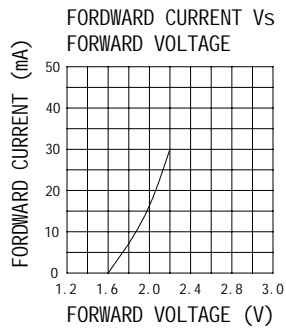
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TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVE:



High Red





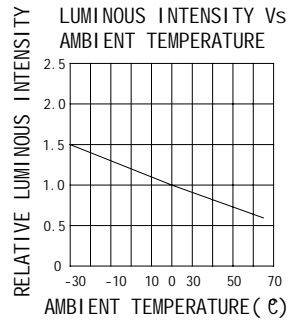
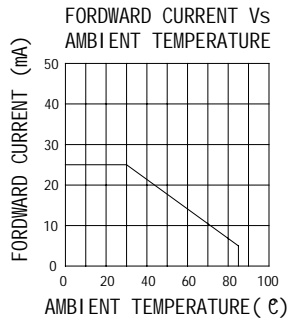
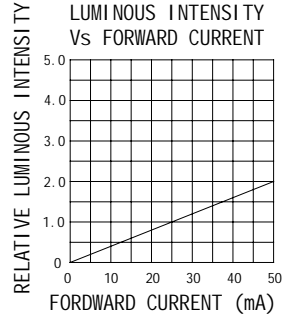
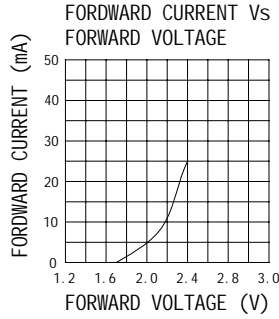
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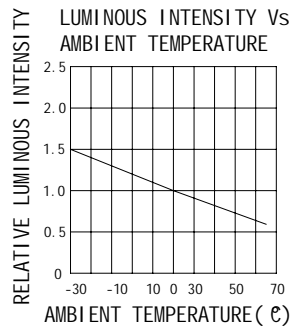
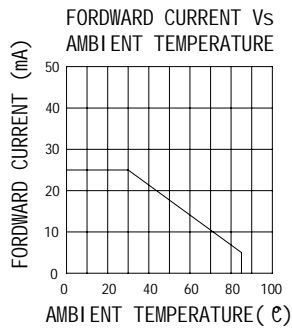
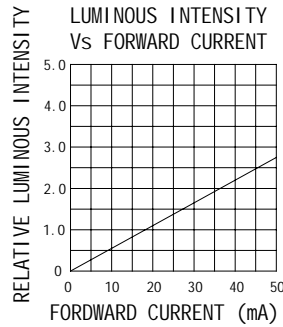
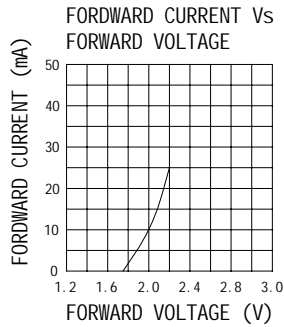
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Yellow Green



Yellow





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ULM-1588AX/BX

1.5" Dot Matrix Display

Super Bright Red

