



漳州市晶艺佳电子制造有限公司

ZhangZhou Jingyijia Electronic Manufacture Co.,Ltd.

ULF-5461AX/BX

0.56" Four Digit Display

■ Features:

1. 0.56inch(14.2mm) 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:

1. The ULF-5461AX/BX is a 14.2mm(0.56") high Four digit 7-segment alphanumeric display.
2. 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.
3. The product have a black/gray/red face and white/red/green/yellow segments.



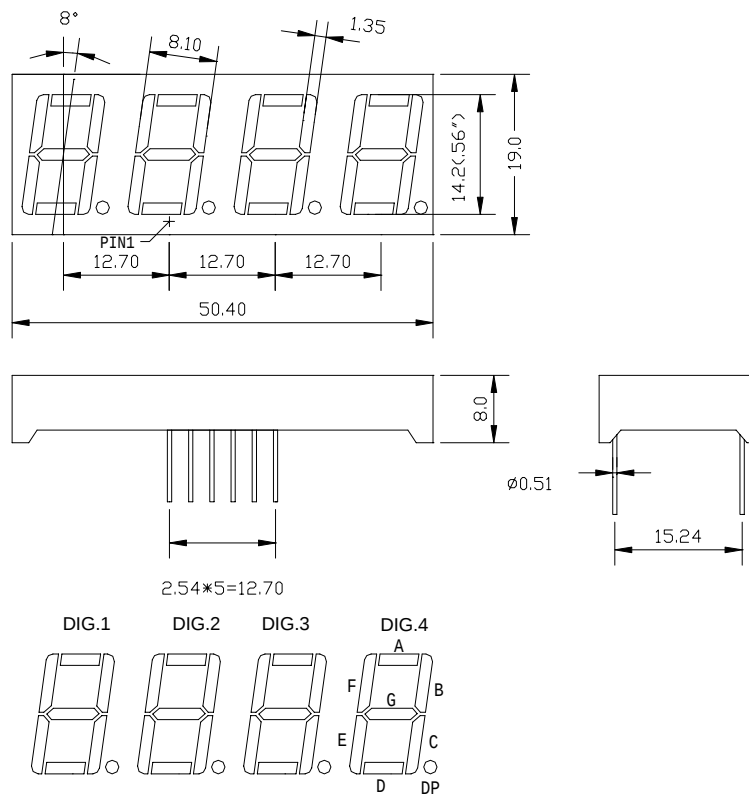
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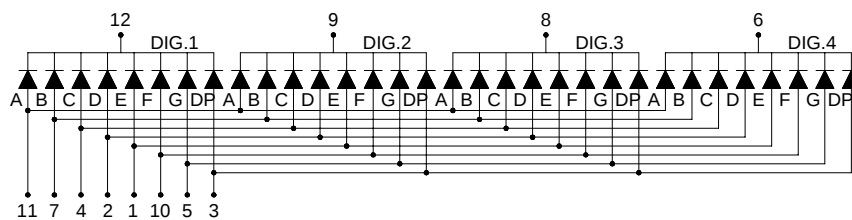
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■ Package Dimensions:

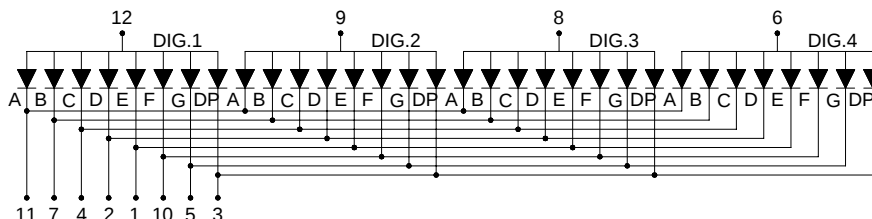


■ Internal Circuit Diagram:

5461AX



5461BX





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■ Selection Guide

Part No.	Dice	Iv(mcd)		Description
		Min.	Typ.	
ULF-5461AS	HIGH RED(GaAsP/GaP)	10	12	Com Cathode
ULF-5461BS				Com Anode
ULF-5461AG	YELLOW GREEN (GaP)	13	16	Com Cathode
ULF-5461BG				Com Anode
ULF-5461AY	YELLOW(GaAsP/GaP)	11	14	Com Cathode
ULF-5461BY				Com Anode
ULF-5461ASR	SUPER BRIGHT RED (GaAlAs)	30	40	Com Cathode
ULF-5461BSR				Com Anode

■ Electrical/Optical Characteristics at Ta=25

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ peak	Peak Wavelength	High Red Yellow Green Yellow Super Bright Red	640 565 590 660		nm	IF=20mA
λ D	Dominate Wavelength	High Red Yellow Green Yellow Super Bright Red	638 568 588 640		nm	IF=20mA
λ 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



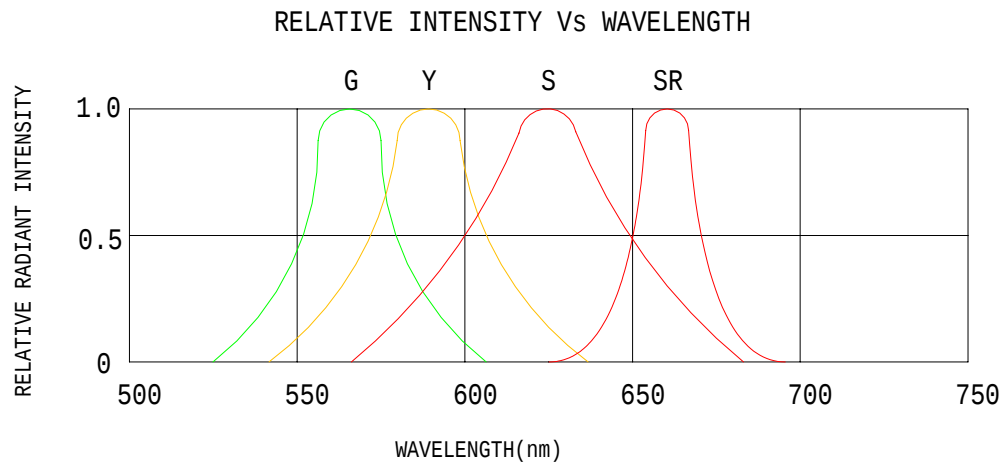
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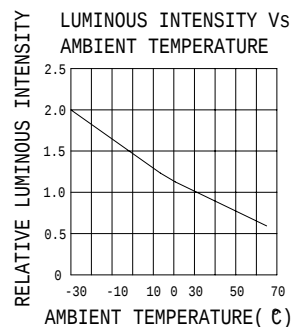
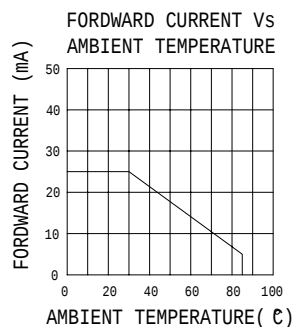
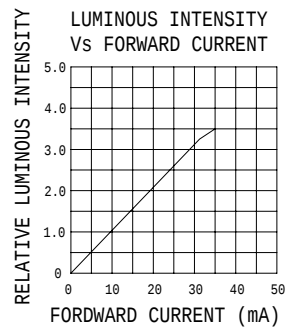
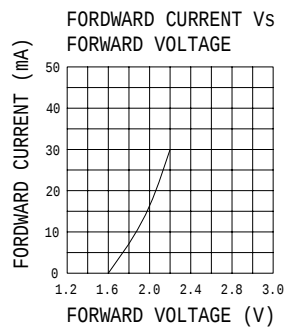
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■ TYPICAL ELECTRO-OPTICAL CHARACTERISTICS CURVE:



High Red





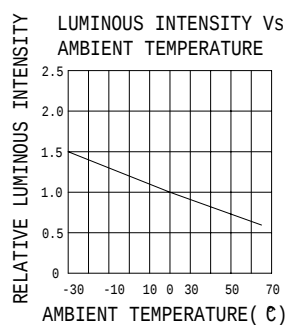
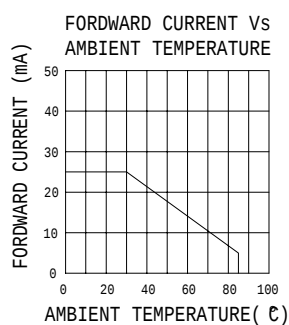
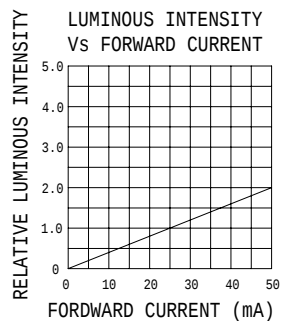
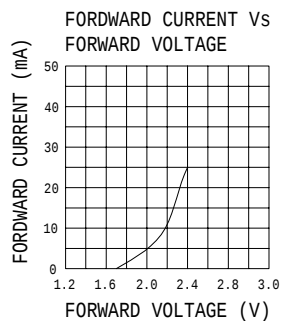
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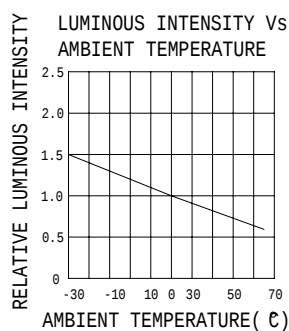
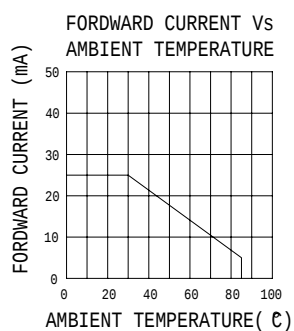
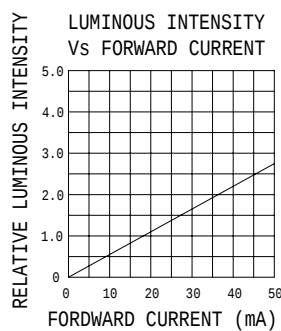
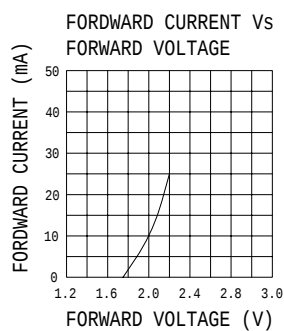
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Yellow Green



Yellow





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Super Bright Red

