0.8 inch (20.32 mm)
SINGLE DIGIT NUMERIC LED DISPLAYS ***UVS-340XL SERIES***

DESCRIPTION

The UVS-3401L/3403L is 0.8 inch (20.32mm) height single digit display.
Choices of five colors-high efficiency red/bright red/green/yellow/red orange.
All devices displays have gray face and white segments.
The bright red and green LED chip are made from GaP on a transparent GaP substrate.
The yellow and red orange LED chip are made from GaAsP on a transparent GaP substrate.

FEATURES

- Industuy Standard Size
- Wide Viewing angle
- Continuous uniform segments.
- Excellent characters appearance
- Low power requirement

DEVICES

PART NO.	DESCRIPTION	PACKAGE DIMENSION	INTERNAL CIRCUIT DIAGRAM
UVS-3401L	Common Anode	Fig. 1	Fig. 2
UVS-3403L	Common Cathode		

ABSOLUTE MAXIMUM RATINGS

@ T_A=25 ºC

PARAMETER	HI.EFF. RED	BRIGHT RED	GREEN	YELLOW	RED ORANGE	UNIT
Power Dissipation Per Segment	75	40	75	60	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle. ,0.1ms pulse width)	100	60	100	80	100	mA
Continuous Forward Current Per Segment	25	15	25	20	25	mA
Derating Linear From 25ºC Per Segment	0.33	0.2	0.33	0.27	0.33	mA/ºC
Reverse Voltage Per Segment	5	5	5	5	5	V
Operating Temperature Range	-35ºCto+85ºC					
Storage Temperature Range	-35ºCto+85ºC					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260ºC						

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SINGLE DIGIT NUMERIC LED DISPLAYS ***UVS-340XL SERIES***

PACKAGE DIMENSIONS

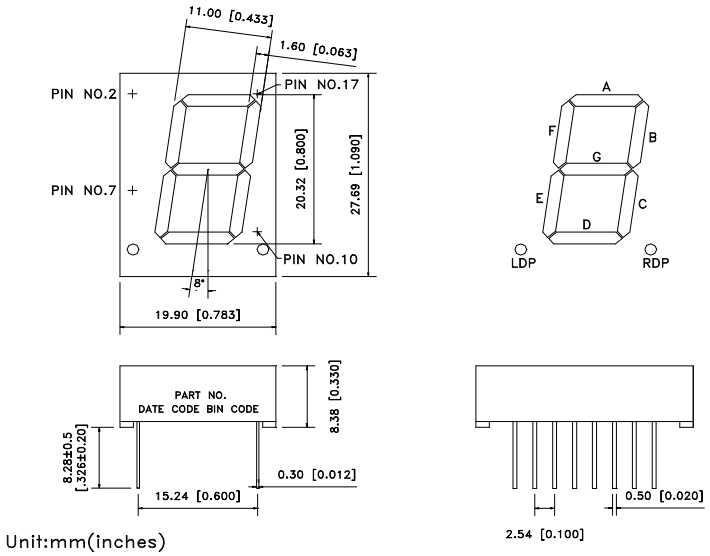


Fig. 1

INTERNAL CIRCUIT DIAGRAM

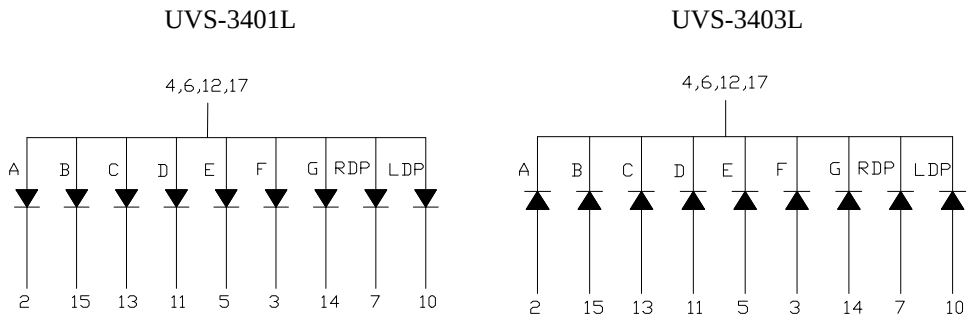


Fig. 2

0.8 inch (20.32 mm)
SINGLE DIGIT NUMERIC LED DISPLAYS **UVS-340XL SERIES**

PIN CONNECTION

PIN	CONNECTION	
	UVS-3401L	UVS-3403L
1	NO PIN	NO PIN
2	CATHODE A	ANODE A
3	CATHODE F	ANODE F
4	COMMON ANODE *1	COMMON CATHODE *1
5	CATHODE E	ANODE E
6	COMMON ANODE *1	COMMON CATHODE *1
7	CATHODE L . D . P .	ANODE L . D . P .
8	NO PIN	NO PIN
9	NO PIN	NO PIN
10	CATHODE R . D . P .	ANODE R . D . P .
11	CATHODE D	ANODE D
12	COMMON ANODE *1	COMMON ANODE *1
13	CATHODE C	ANODE C
14	CATHODE G	ANODE G
15	CATHODE B	ANODE B
16	NO PIN	NO PIN
17	COMMON ANODE *1	COMMON CATHODE *1
18	NO PIN	NO PIN

NOTES: 1. PIN 4.6.12 & 17 are internally connect

ELECTRICAL/OPTICAL CHARACTERISTICS

HI.EFF. RED (UVS-3401LHR / 3403LHR)

@ T_A=25 ºC

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2400		µcd	I_F = 10 mA
Peak Emission Wavelength	λp/Hue		635/623		nm	I_F = 20 mA
Spectral Line Half-Width	Δλ		40		nm	I_F = 20 mA
Forward Voltage, Per Segment	V_F		2.0	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	µA	V_R = 5 V
Luminous Intensity Matching Rat	I_v- m			2:1		I_F = 10 mA

BRIGHT RED (UVS-3401LP / 3403LP)

@ T_A=25 ºC

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	320	950		µcd	I_F = 10 mA
Peak Emission Wavelength	λp/Hue		697/657		nm	I_F = 20 mA
Spectral Line Half-Width	Δλ		90		nm	I_F = 20 mA
Forward Voltage, Per Segment	V_F		2.1	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	µA	V_R = 5 V
Luminous Intensity Matching Rat	I_v- m			2:1		I_F = 10 mA

ELECTRICAL/OPTICAL CHARACTERISTICS

GREEN (UVS-3401LG / 3403LG)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2400		mcd	I_F = 10 mA
Peak Emission Wavelength	λp/Hue		565/569		nm	I_F = 20 mA
Spectral Line Half-Width	Δλ		30		nm	I_F = 20 mA
Forward Voltage, Per Segment	V_F		2.1	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	mA	V_R = 5 V
Luminous Intensity Matching Ra	I_{V-m}			2:1		I_F = 10 mA

YELLOW (UVS-3401LY / 3403LY)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2400		μcd	I_F = 10 mA
Peak Emission Wavelength	λp/Hue		585/588		nm	I_F = 20 mA
Spectral Line Half-Width	Δλ		35		nm	I_F = 20 mA
Forward Voltage, Per Segment	V_F		2.1	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	μA	V_R = 5 V
uminous Intensity Matching Rati	I_{V-m}			2:1		I_F = 10 mA

RED ORANGE (UVS-3401LE / 3403LE)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2400		μcd	I_F = 10 mA
Peak Emission Wavelength	λp/Hue		630/621		nm	I_F = 20 mA
Spectral Line Half-Width	Δλ		40		nm	I_F = 20 mA
Forward Voltage, Per Segment	V_F		2.0	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	μA	V_R = 5 V
Luminous Intensity Matching Ra	I_{V-m}			2:1		I_F = 10 mA

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

(Ambient Temperature =25°C Unless Otherwise Noted)

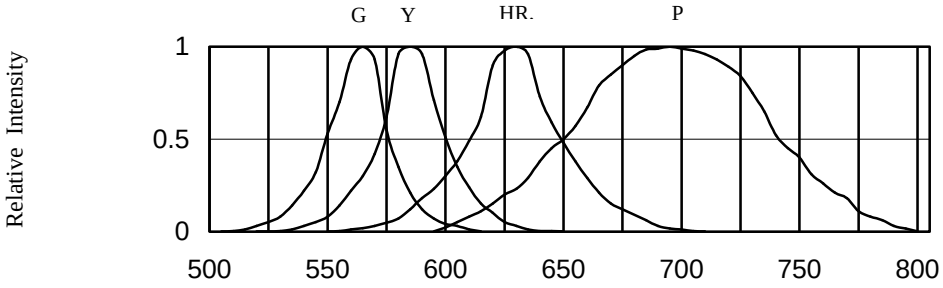
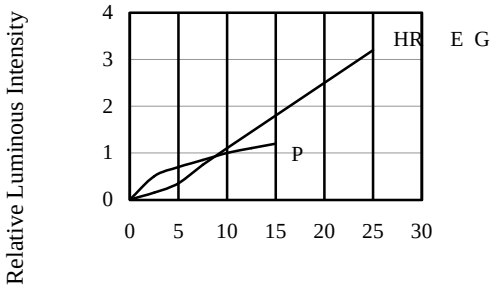
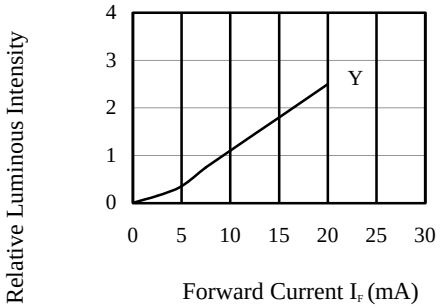


FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH



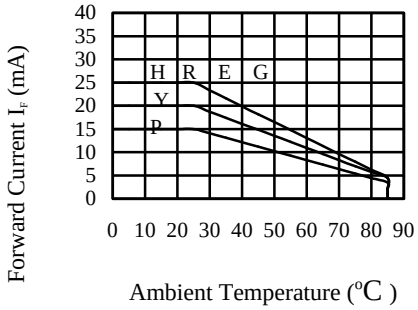
Forward Current I_F (mA)

FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



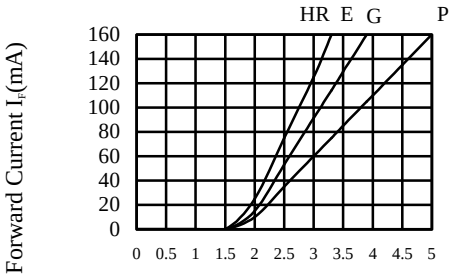
Forward Current I_F (mA)

FIG.2-1 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



Ambient Temperature (°C)

FIG.3 ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE



Forward Voltage (V)

FIG.4 FORWARD CURRENT VS. FORWARD VOLTAGE