0.36 inch (9.14 mm)
SINGLE DIGIT NUMERIC LED DISPLAYS *UVS-36X SERIES*

DESCRIPTION

The UVS-360/367 is 0.36 inch (9.14mm) height single digit display.
Choices of five colors-high efficiency red/bright red/green/yellow/red orange.
High efficirncy red and bright red displays have red face and red segments.
Green,yellow and red orange 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-360	Common Anode	Fig. 1	Fig. 2
UVS-367	Common Cathode		

ABSOLUTE MAXIMUM RATINGS

@ T_A=25 °C

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 25°C Per Segment	0.33	0.2	0.33	0.27	0.33	mA/°C
Reverse Voltage Per Segment	5	5	5	5	5	V
Operating Temperature Range	-35°Cto+85°C					
Storage Temperature Range	-35°Cto+85°C					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C						

0.36 inch (9.14 mm)
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PACKAGE DIMENSIONS

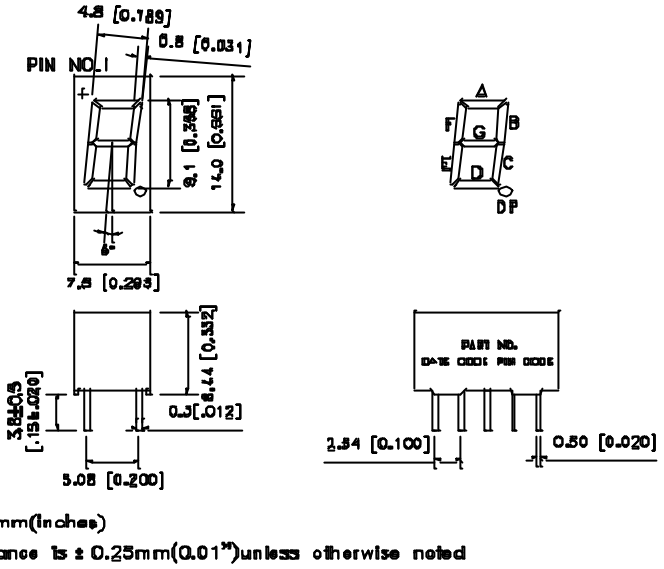

Fig. 1

INTERNAL CIRCUIT DIAGRAM

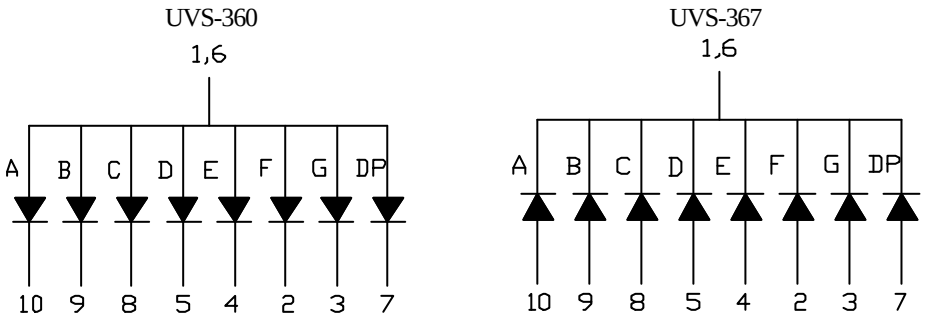

Fig. 2

0.36 inch (9.14 mm)

SINGLE DIGIT NUMERIC LED DISPLAYS UVS-36X SERIES

PIN CONNECTION

PIN	CONNECTION	
	UVS-360	UVS-367
1	COMMON ANODE * 1	COMMON CATHODE * 1
2	CATHODE F	ANODE F
3	CATHODE G	ANODE G
4	CATHODE E	ANODE E
5	CATHODE D	ANODE D
6	COMMON ANODE * 1	COMMON CATHODE * 1
7	CATHODE D.P.	ANODE D.P.
8	CATHODE C	ANODE C
9	CATHODE B	ANODE B
10	CATHODE A	ANODE A

NOTES: 1. PIN 1 & 6 are internally connected.

ELECTRICAL/OPTICAL CHARACTERISTICS

HI.EFF. RED(UVS-360HR / 367HR)

@ T_A=25ºC

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2000		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		2.1	2.6	V	I_F = 20 mA
Reverse Current, Per Segment	I_R			100	μA	V_R = 5 V
Luminous Intensity Matching Ratio	I_v- m			2:1		I_F = 10 mA

BRIGHT RED(UVS-360P / 360P)

@ T_A=25ºC

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	320	750		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 Ratio	I_v- m			2:1		I_F = 10 mA

ELECTRICAL/OPTICAL CHARACTERISTICS

GREEN (UVS-360G / 367G)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2000		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 Ratio	I_v- m			2:1		I_F = 10 mA

YELLOW(UVS-360Y / 367Y)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2000		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
Luminous Intensity Matching Ratio	I_v- m			2:1		I_F = 10 mA

RED ORANGE(UVS-360E / 367E)

@ T_A=25 °C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I_V	800	2000		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 Ratio	I_v- m			2:1		I_F = 10 mA

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

(Ambient Temperature =25°C Unless Otherwise Noted)

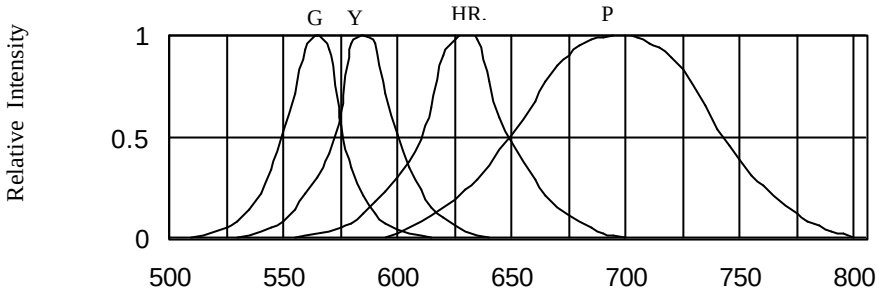

FIG.1 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH

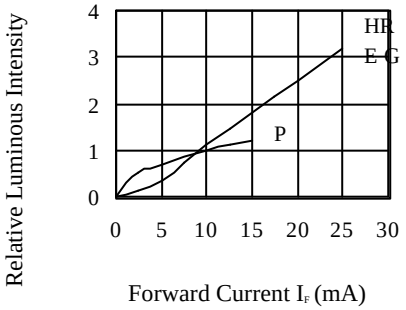

FIG.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

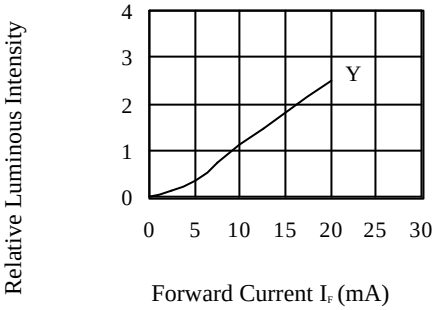

FIG.2-1 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

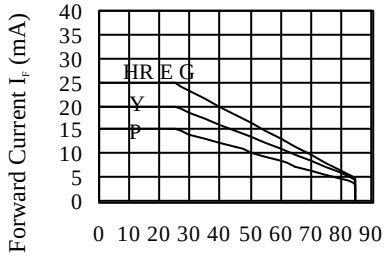

FIG.3 ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

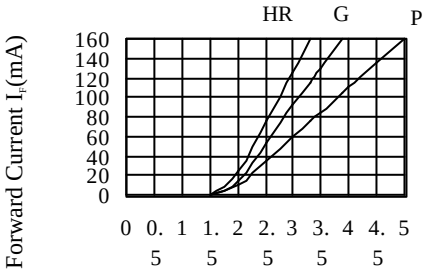

FIG.4 FORWARD CURRENT VS. FORWARD VOLTAGE