



YETDA INDUSTRY LTD.

1.2" SINGLE DIGIT RED & PURE-GREEN LED DISPLAY

S-12011AUFPG11

DESCRIPTION

- * 1.2" (30.60mm) Inch Digit Height.
- * Super Bright Red and Pure-green Display.
- * Black Face and White Segment Color.
- * Common Cathode.

ABSOLUT MAXIMUM RATINGS AT Ta=25°C

Parameter		UNIT
Power Dissipation Per Seg.	50	mW
Peak Forward Current Per Seg.	60	mA
Forward current Per Seg.	20	mA
Reverse Voltage Per Seg.	20	V
Operation Temperature Range	-25°C TO +80°C	°C
Storage Temperature Range	-25°C TO +85°C	°C
Lead Soldering Temperature	260°C for 3 seconds 1.6mm(1/16 inch) from body	

ELECTRICAL/OPTICAL CHARACTERISTIC AT Ta=25°C

RED

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITION
Average Luminous Intensity	Iv	50		70	Mcd	If=20mA
Emission Wavelength	λd	629		635	nm	If=20mA
Forward Voltage Per Seg.	Vf	1.8	2.0	2.5	V	If=20mA
Reverse Current Per Seg.	Ir			50	uA	Vr=20V
Luminous Intensity Matching Ratio	Iv-m	2 : 1				If=20mA



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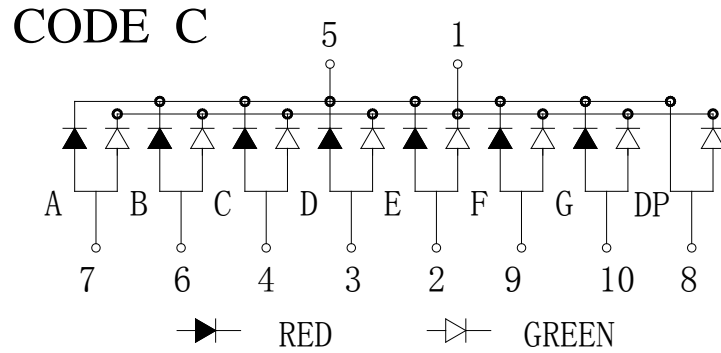
ELECTRICAL/OPTICAL CHARACTERISTIC AT Ta=25°C PURE-GREEN

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITION
Average Luminous Intensity	I _v	160		175	mcd	I _f =20mA
Emission Wavelength	λ _d	510		520	nm	I _f =20mA
Forward Voltage Per Seg.	V _f	2.8	3.2	3.6	V	I _f =20mA
Reverse Current Per Seg.	I _r			50	uA	V _r =20V
Luminous Intensity Matching Ratio	I _v -m			2 : 1		I _f =20mA

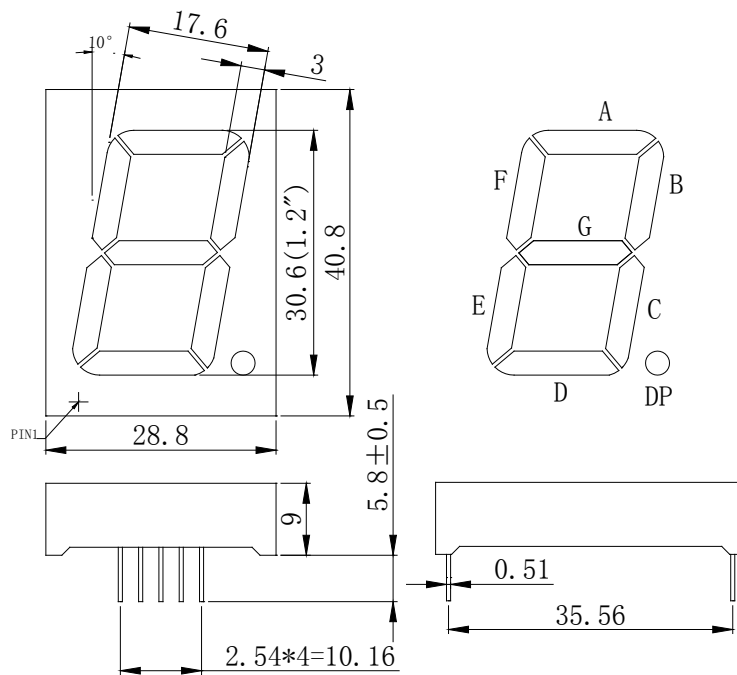


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P.C.B. Pin Connection



Reflector Dimensions



Unit:mm



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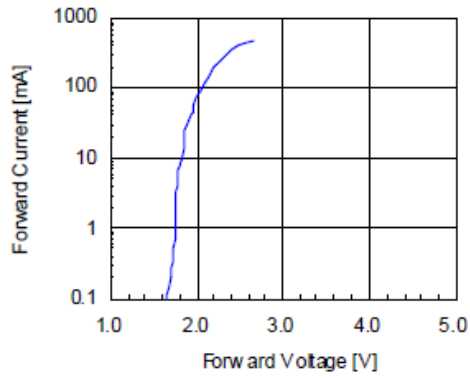


Fig 3. Forward Voltage vs. Temperature

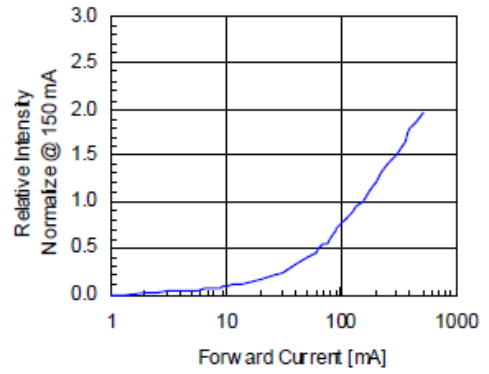


Fig 4. Relative Intensity vs. Temperature

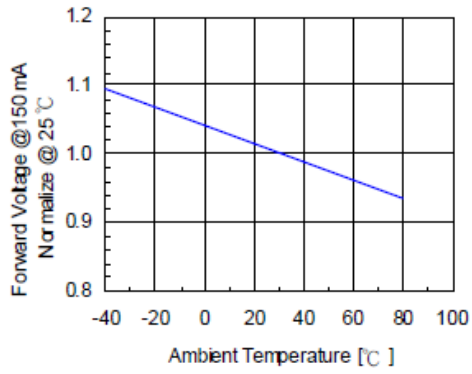
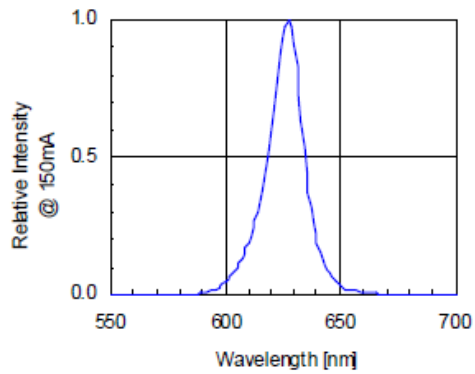
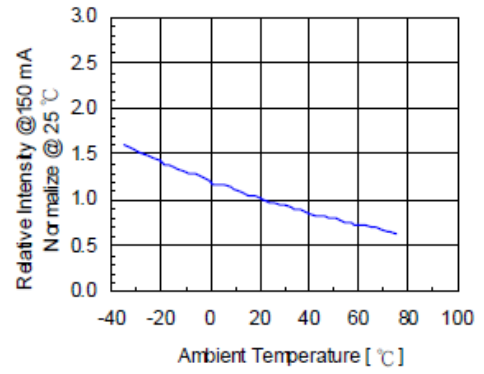


Fig 5. Relative Intensity vs. Wavelength





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Fig 1. Forward Current vs. Forward Voltage

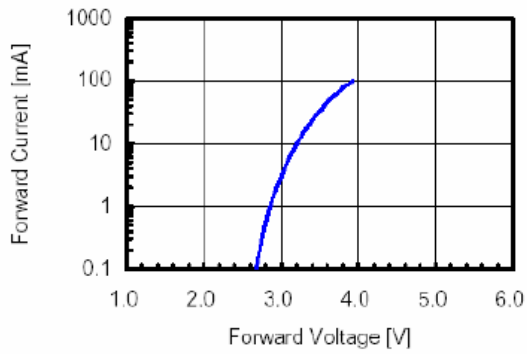


Fig 2. Relative Intensity vs. Forward Current

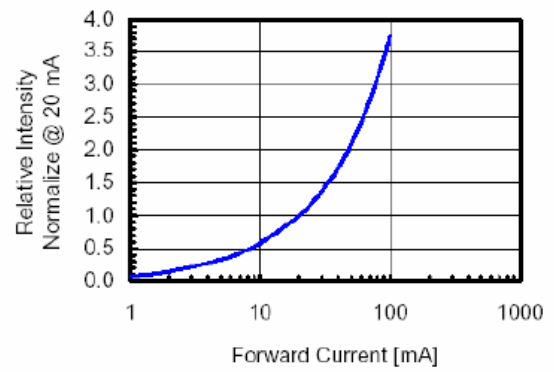


Fig 3. Forward Voltage vs. Temperature

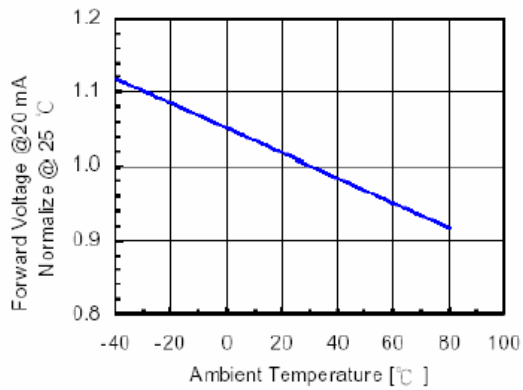


Fig 4. Relative Intensity vs. Temperature

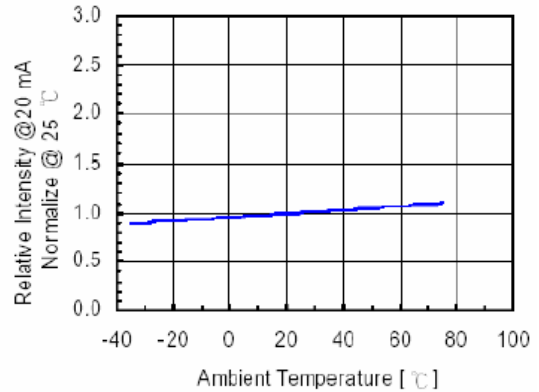
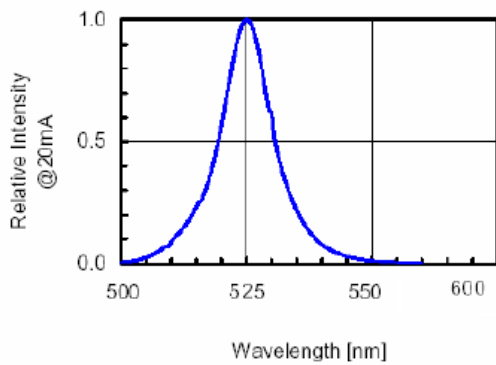


Fig 5. Relative Intensity vs. Wavelength





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Soldering

Manual of soldering

The temperature of the iron tip should not be higher than 260 °C and

Soldering within 3 seconds per solder-land is to be observed

1. DIP soldering (Wave Soldering):

Preheating: 120

°C ~ 150°C within 5 sec. 260°C (Max)

Gradual Cooling (Avoid quenching)

