FEATURES

- High intensity and reliability.
- High quality and low cost.
- Choice of colors: Red/Orange/Green/Blue,etc.
- Low power requirement.
- I. C. compatible.
- Easy assembly.

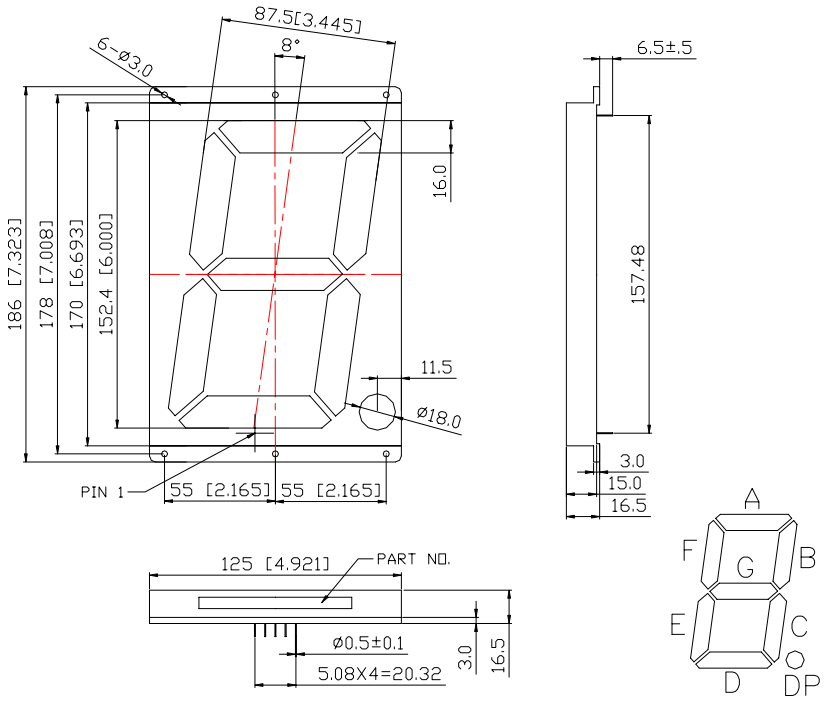
DESCRIPTION

The WCN1-XXF0XX-XXX series are 6.0inch (152.4mm) height single digit displays.

SH. Red displays have black face or gray face and milky segment or red segment.

Bright Green displays have black face or gray face and milky segment.

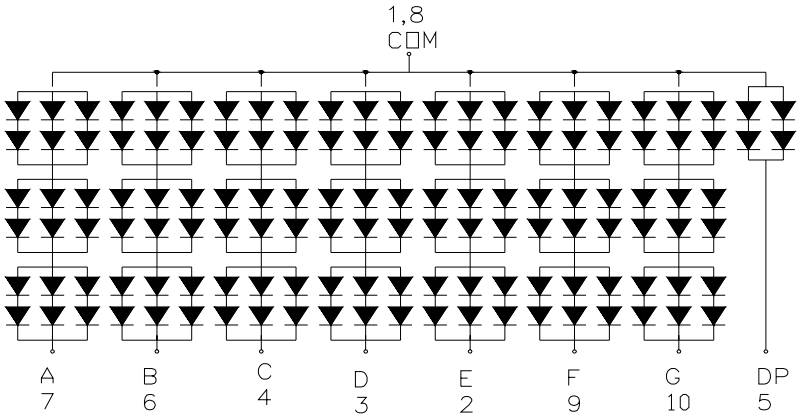
PACKAGE DIMENSIONS



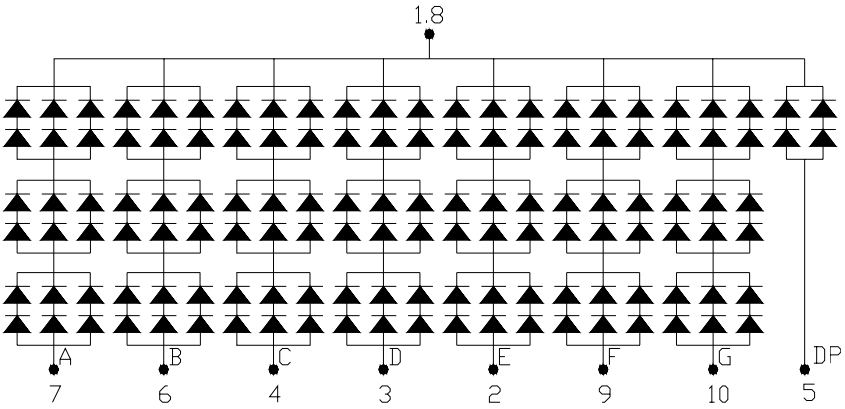
NOTES: All dimensions are in millimeters (inches) tolerance are ± 0.25mm(0.010) unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM

A. WCN1-XXF0XX-A23



B. WCN1-XXF0XX-C23



ABSOLUTE MAXIMUM RATINGS AT T_a=25°C

PARAMETER	SH.RED	BRIGHT GREEN	UNIT
Power Dissipation Per Segment	720	936	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	200	200	mA
Continuous Forward Current Per Segment Derating Linear From 25°C Per Segment	60 0.30	60 0.33	mA mA/°C
Reverse Voltage Per Segment	30	30	V
Operating Temperature Range	-35°C to + 85°C		
Storage Temperature Range	-35°C to + 85°C		
Solder Temperature 1/16 inch below seating plane for 3 seconds at 260°C			

ELECTRICAL/OPTICAL CHARACTERISTICS AT T_a=25°C

WCN1-00FOSD-A23/C23

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Luminous Intensity Per Segment	I_V	35.0	40.0	—	mcd	I_F=30mA
Dominant Wavelength	λ_D	—	643	—	nm	I_F=60mA
Peak Emission Wavelength	λ_P	—	660	—	nm	I_F=60mA
Spectral Line Half-Width	$\Delta\lambda$	—	20	—	nm	I_F=60mA
Forward Voltage Per Segment	V_F	—	10.8	12.0	V	I_F=60mA
Reverse Current Per Segment	I_R	—	—	100	μA	V_R=30v
Luminous Intensity Matching Ratio (Segment To Segment)	I_{V-m}			2:1		I_F=30mA

WCN1-00FOG3-A23/C23

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Luminous Intensity Per Segment	I_V	30.0	35.0	—	mcd	I_F=30mA
Dominant Wavelength	λ_D	—	573	—	nm	I_F=60mA
Peak Emission Wavelength	λ_P	—	568	—	nm	I_F=60mA
Spectral Line Half-Width	$\Delta\lambda$	—	30	—	nm	I_F=60mA
Forward Voltage Per Segment	V_F	—	13.5	15.6	V	I_F=60mA
Reverse Current Per Segment	I_R	—	—	100	μA	V_R=30v
Luminous Intensity Matching Ratio (Segment To Segment)	I_{V-m}			2:1		I_F=30mA