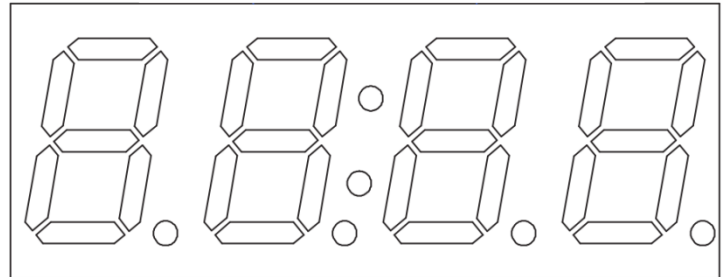# 4-Digit 7-Segment LED Display

RE40563DR1B

CHARACTERISTICS

Package Dimensions : 50.4mm x 19mm x 8mm

Digit height : 14.2mm (0.56 inch)

Common Cathode

High Luminous Intensity

Low power requirement

Stable performance

Continuous Uniform Segments

Easy Mounting on PCB Boards

Long lifespan

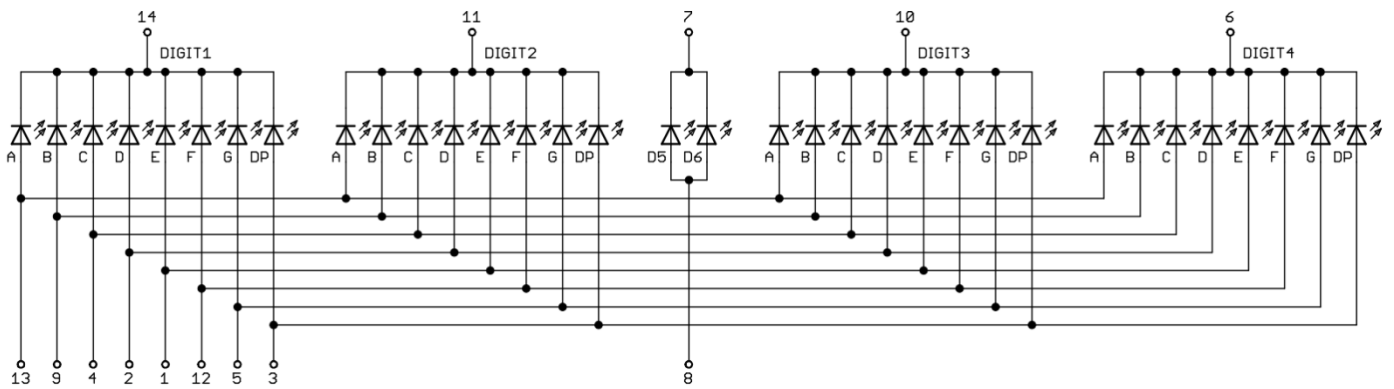RoHS Compliant

4-Digit 0.56" Common Cathode 7-Segment LED Display

Ultra Bright Red

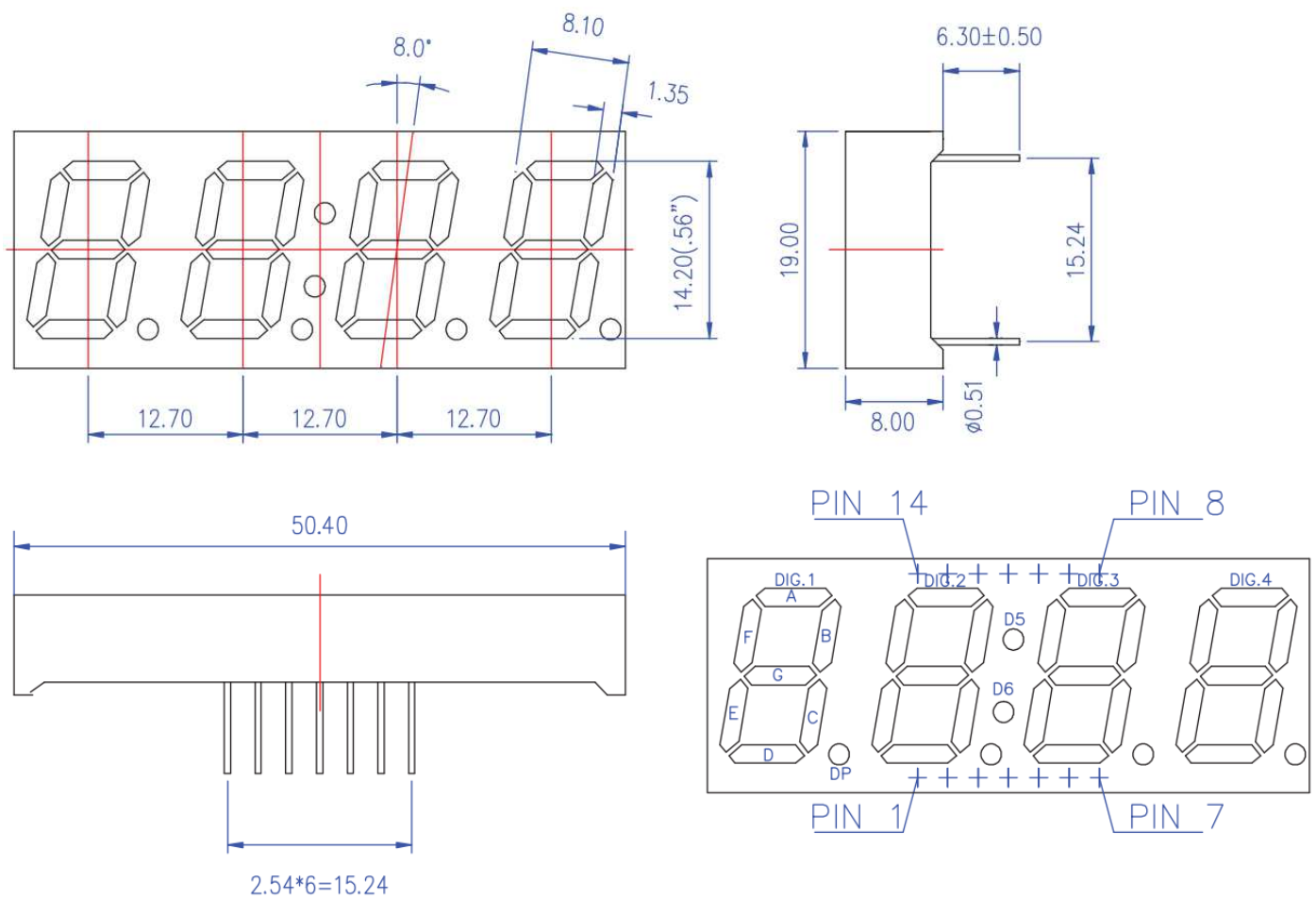| ORDER CODE	Color	
RE40563DR1B	Ultra bright Red	White Segments, Black Face Emitting Color: Ultra bright red

also available:

RE40563DG1B	Pure Green	White Segments, Black Face Emitting Color: Pure Green
RE40563DBH1B	Blue	White Segments, Black Face Emitting Color: Ultra bright blue
RE40563DY1B	Yellow	White Segments, Black Face Emitting Color: Ultra bright yellow
RE40563DF1B	Orange/Amber	White Segments, Black Face Emitting Color: Ultra bright Orange

SEGMENT ROUTING DIAGRAM

14
DIGIT1
11
DIGIT2
7
10
DIGIT3
6
DIGIT4

A B C D E F G DP   A B C D E F G DP   D5 D6   A B C D E F G DP   A B C D E F G DP

13 9 4 2 1 12 5 3   8

DIMENSIONS AND PINOUT

8.0°
8.10
1.35
6.30±0.50

14.20(.56")
19.00
15.24

12.70 12.70 12.70
8.00
Ø0.51

50.40

2.54*6=15.24

PIN 14
PIN 8

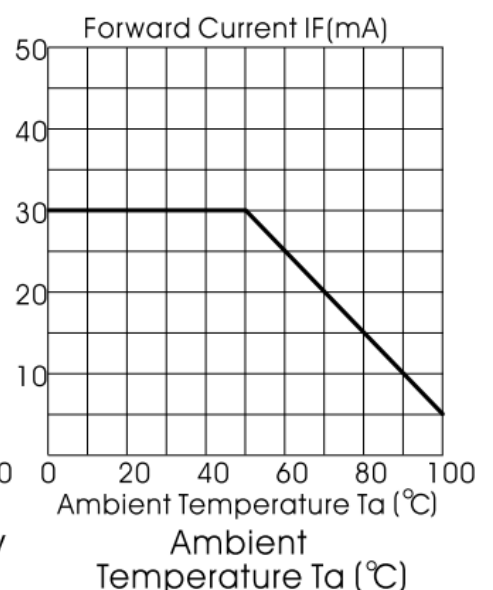DIG.1 DIG.2 DIG.3 DIG.4
A
F   B   D5
G
E   C   D6
D
DP

PIN 1
PIN 7

ABSOLUTE MAXIMUM RATINGS

Conditions: Ambient Temperature T_A=25°C

Parameter	Symbol	Ratings	Unit
Forward Current (per dice)	I_{PM}	20	mA
Reverse Voltage(per dice)	V_R	5	V
Power Dissipation (per dice)	P_M	65	mW
Operating Temperature Range	T_{OPR}	-40 ... +85	°C
Storage Temperature Range	T_{STG}	-40 ... +85	°C
Solder Temperature (3 Seconds)	T_H	260	°C

ELECTRICAL AND OPTICAL CHARACTERISTICS

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage (per dice)	V_F	I_F=20mA	1,8		2,5	V
ReverseVoltage (per dice)	V_R	I_R=10mA	5			V
Luminous Intensity (per dice)	I_V	I_F=20mA	50		60	mcd
Spectrum With of Half Value	Δ	I_F=20mA		20		nm
Wavelength	D	I_F=20mA	630		635	nm
Solder Temperature 1.5mm below seating plane for 3 Seconds at 260℃						
LED working lifetime 100.000hrs						

Green   Yellow   Hi. Red   Bright Red

Wavelength λ (nm)
Relative Intensity vs. Wavelength

Forward Current IF(mA)
Forward Voltage VF(V)
Forward Current VS Forward Voltage.

Relative Luminous Intensity
Forward Voltage VF(V)
Relative Luminous Intensity VS. Forward Current

Forward Current IF(mA)
Ambient Temperature Ta (℃)
Ambient Temperature Ta (℃)
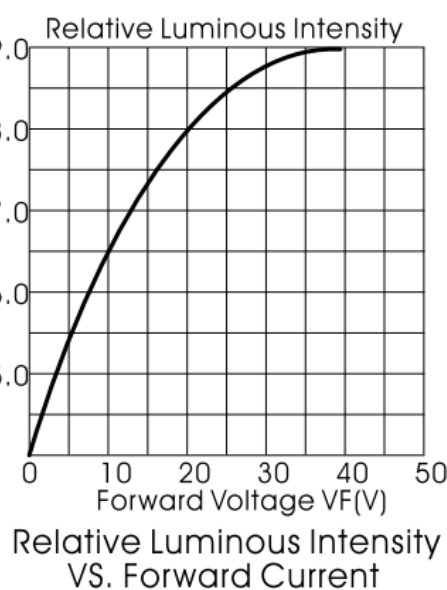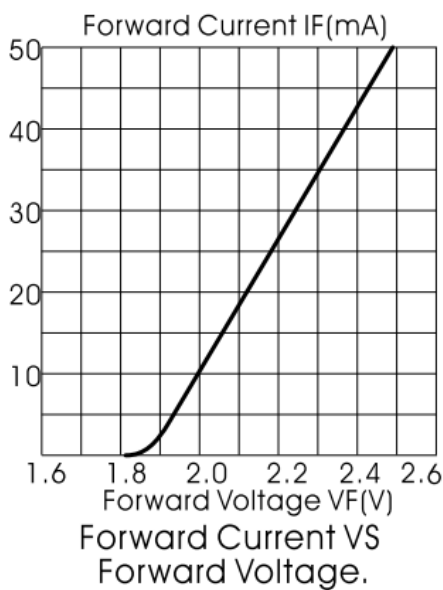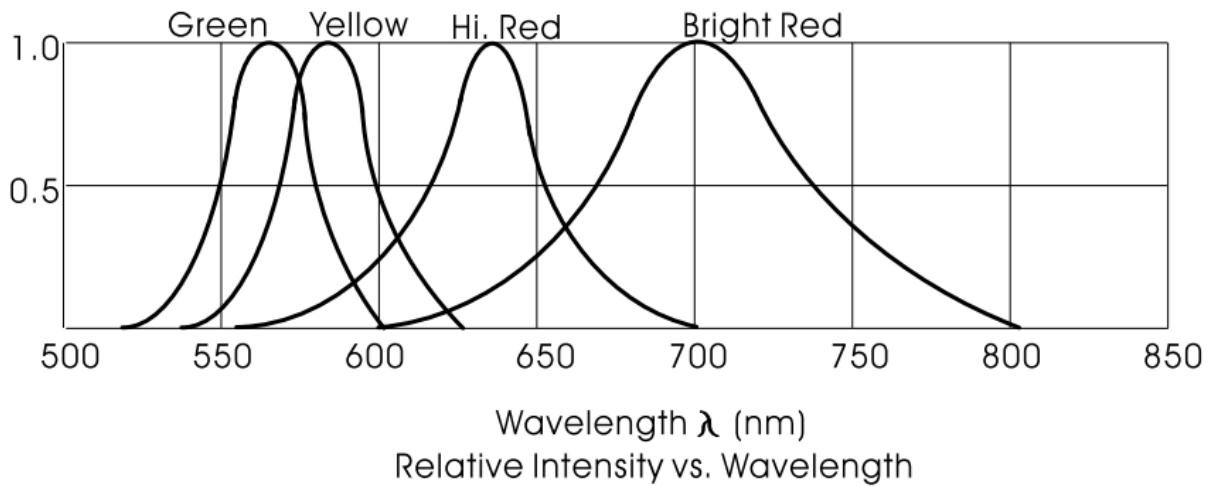
Intended use
Displaying 4 Digits, for example time (hrs:min or min:sec).

Warning
To avoid damage due to electrostatic discharge (ESD), appropriate measures for ESD protection are to be taken for handling and only appropriately trained personnel should handle the board.

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