LD5631A/B Series - 0.56 inch Three Digit 7 Segment LED Display

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

RoHS

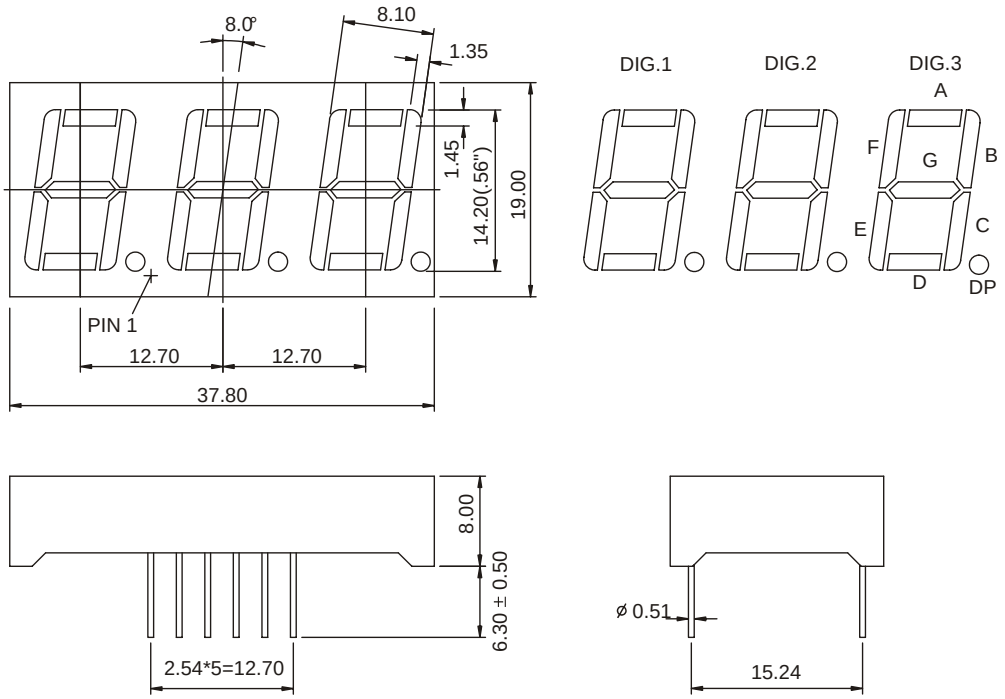
Features

- 14.20 mm (0.56 inch) digit high
- Excellent digit appearance
- Wide viewing angle
- Range of emitted colors
- I.C. compatible
- Low power consumption
- White segment, black face
- RoHS compliant

Available options

- Alternative emitting luminosity:
  Standard or high brightness version
- Alternative emitted color
- Alternative face and segment color
- Alternative font
- Both CA and CC versions are available
- Cropped terminal pins

Package Dimensions

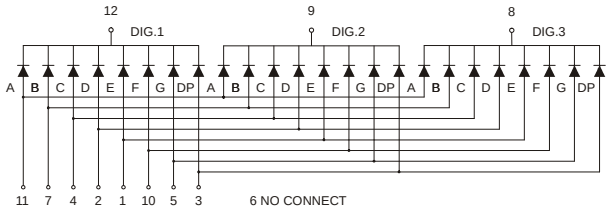


Notes:

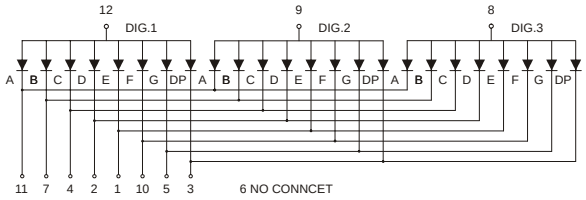
1. All dimensions are in millimeters (inches), Tolerance is ± 0.25mm(0.01inch)unless other wise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LD5631A (Common Cathode)



LD5631B (Common Anode)



Selection Guide

Three Digits 7 Segment LED Display, Digit Height: 14.20mm(0.56inch), External Dimensions: 37.80x19.00x8.00mm (L x W x H)

Part No.		Chip			Iv@IF=20mA		Iv@IF=20mA	
Common Cathode	Common Anode	Material	Color	WLD	One Seg		One DP	
					Min.	Typ.	Min.	Typ.
LD5631AR	LD5631BR	GaAlAs	Super Red	640	8	10	8	10
LD5631AD	LD5631BD	GaAlAs	Hi-Red	640	18	25	18	25
LD5631AO	LD5631BO	GaAsP	Orange	625	7	9	7	9
LD5631AY	LD5631BY	GaAsP	Yellow	588	8	10	8	10
LD5631AG	LD5631BG	GaP	Green	568	7	9	7	9
LD5631AUR	LD5631BUR	AlGaInP	Ultra Red	640	30	45	30	45
LD5631AUO	LD5631BUO	AlGaInP	Ultra Orange	625	45	60	45	60
LD5631AUA	LD5631BUA	AlGaInP	Ultra Amber	605	30	45	30	45
LD5631AUY	LD5631BUY	AlGaInP	Ultra Yellow	595	30	45	30	45
LD5631AUG	LD5631BUG	AlGaInP	Ultra Green	573	30	45	30	45
LD5631APG	LD5631BPG	InGaN	Pure Green	525	120	300	120	300
LD5631AUB	LD5631BUB	InGaN	Ultra Blue	470	30	45	30	45
LD5631AUW	LD5631BUW	InGaN	Ultra White	\	100	120	100	120
Unit:	\	\	\	nm	mcd	mcd	mcd	mcd

Electrical Characteristics & Absolute Maximum Ratings

Parameter		Electrical optical Characteristics[1]			Absolute Maximum Ratings[1]		
Emitted color		Forward Voltage @ IF=20mA		Reverse Current VR=5V	Power Dissipation	DC Forward Current	Peak Forward Current[2]
		Typ.	Max.				
Super Red	Per Seg.	1.8	2.2	30	60	25	100
	Per DP	1.8	2.2	30	60	25	100
Hi-Red	Per Seg.	1.8	2.2	30	60	25	100
	Per DP	1.8	2.2	30	60	25	100
Orange	Per Seg.	2.1	2.5	30	80	30	100
	Per DP	2.1	2.5	30	80	30	100
Yellow	Per Seg.	2.1	2.5	30	80	30	100
	Per DP	2.1	2.5	30	80	30	100
Green	Per Seg.	2.2	2.5	30	80	30	100
	Per DP	2.2	2.5	30	80	30	100
Ultra Red	Per Seg.	1.9	2.6	30	60	30	100
	Per DP	1.9	2.6	30	60	30	100
Ultra Orange	Per Seg.	2	2.6	30	65	30	100
	Per DP	2	2.6	30	65	30	100
Ultra Amber	Per Seg.	2	2.6	30	65	30	100
	Per DP	2	2.6	30	65	30	100
Ultra Yellow	Per Seg.	2	2.6	30	65	30	100
	Per DP	2	2.6	30	65	30	100
Ultra Green	Per Seg.	2.1	2.6	30	75	30	100
	Per DP	2.1	2.6	30	75	30	100
Pure Green	Per Seg.	3.5	4	30	110	30	100
	Per DP	3.5	4	30	110	30	100
Ultra Blue	Per Seg.	3.5	4	30	120	30	100
	Per DP	3.5	4	30	120	30	100
Ultra White	Per Seg.	3.5	4	30	120	30	100
	Per DP	3.5	4	30	120	30	100
Unit:	\	V	V	uA	mW	mA	mA

Notes:

1. At Ta = 25 °C.

2. Peak forward current at 1/10 Duty Cycle, 0.1ms Pulse.