LD3011A/B Series - 0.30 inch Single Digit 7 Segment LED Display

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

RoHS

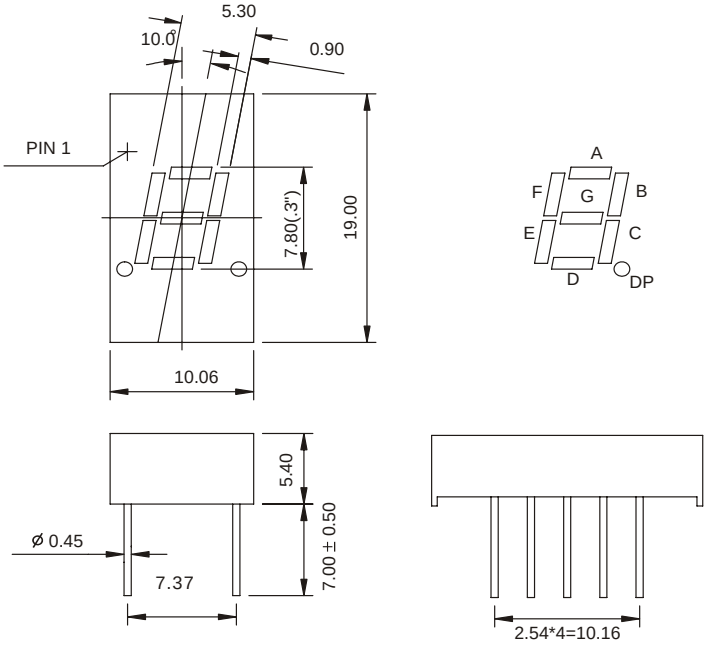
Features

- 7.80 mm (0.30 inch) digit high
- Excellent digit appearance
- Wide viewing angle
- Range of emitted colors
- I.C. compatible
- Low power consumption
- White segment
- RoHS compliant

Available options

- Alternative emitting luminosity:
  Standard or high brightness version
- Alternative emitted color
- Alternative segment color
- Alternative font
- Common Cathode is available
- Cropped terminal pins

Package Dimensions

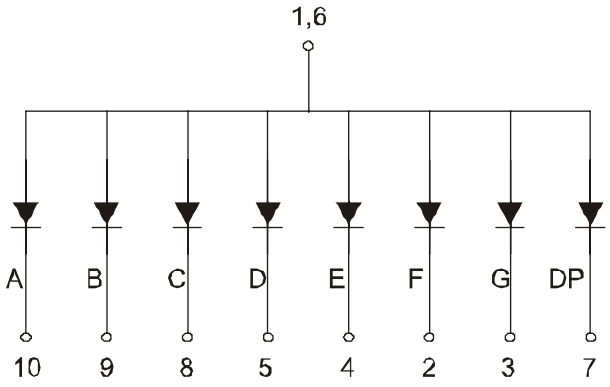


Notes:

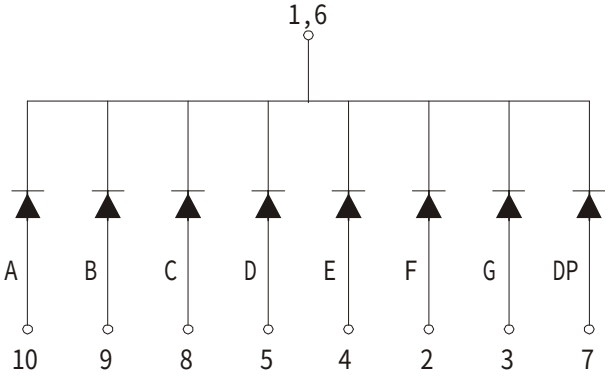
1. All dimensions are in millimeters(inches), Tolerance is ± 0.25mm(0.01inch)unless other wise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LD3011A (Common Cathode)



LD3011B (Common Anode)



Selection Guide

Single Digit 7 Segment LED Display, Digit Height: 7.8mm(0.30inch), External Dimensions: 10.06x19x5.4mm (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.
LD3011AR	LD3011BR	GaAlAs	Super Red	640	8	10	8	10
LD3011AD	LD3011BD	GaAlAs	Hi-Red	640	18	25	18	25
LD3011AO	LD3011BO	GaAsP	Orange	625	7	9	7	9
LD3011AY	LD3011BY	GaAsP	Yellow	588	8	10	8	10
LD3011AG	LD3011BG	GaP	Green	568	7	9	7	9
LD3011AUR	LD3011BUR	AlGaInP	Ultra Red	640	30	45	30	45
LD3011AUO	LD3011BUO	AlGaInP	Ultra Orange	625	45	60	45	60
LD3011AUA	LD3011BUA	AlGaInP	Ultra Amber	605	30	45	30	45
LD3011AUY	LD3011BUY	AlGaInP	Ultra Yellow	595	30	45	30	45
LD3011AUG	LD3011BUG	AlGaInP	Ultra Green	573	30	45	30	45
LD3011APG	LD3011BPG	InGaN	Pure Green	525	120	300	120	300
LD3011AUB	LD3011BUB	InGaN	Ultra Blue	470	30	45	30	45
LD3011AUW	LD3011BUW	InGaN	Ultra White	\	100	120	100	120
Unit:	\	\	\	nm	mcd	mcd	mcd	mcd

Electrical Characteristics & Absolute Maximum Ratings

Color		Electrical optical Characteristics[1]			Absolute Maximum Ratings[1]		
		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.