

LD30011A/BRG Series – 3.00 inch Single Digit 7 Segment Dual-color LED Display



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



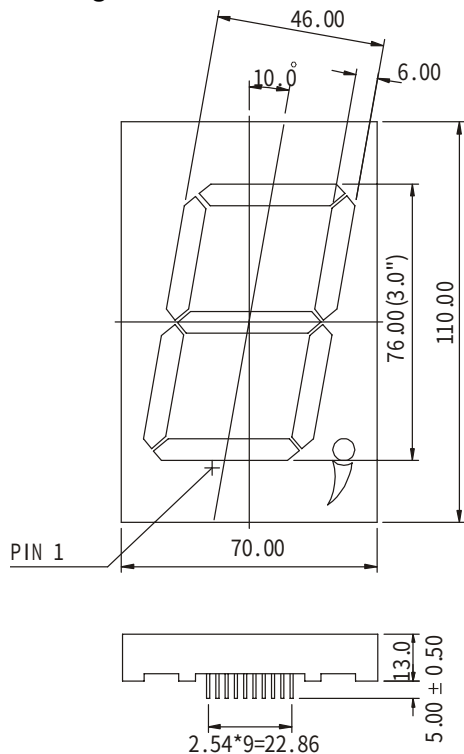
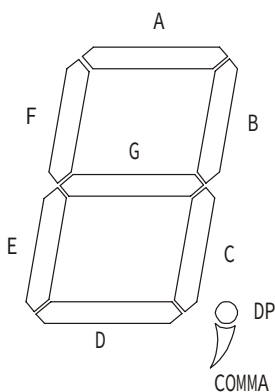
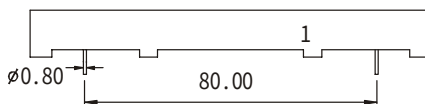
Features

- 76.00 mm (3.00 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

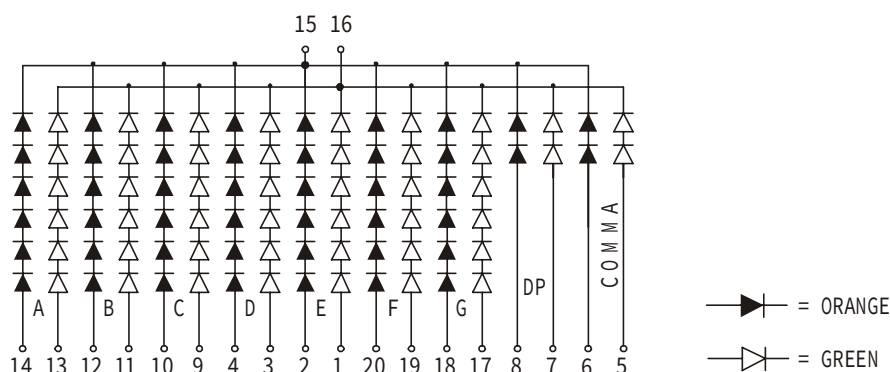


Notes:

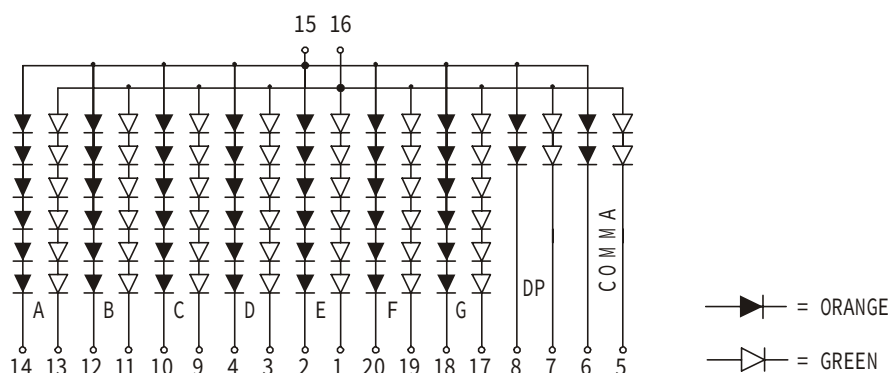
1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25\text{mm}$ (0.01inch) unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LD30011ARG(Common Cathode)



LD30011BRG (Common Anode)



Selection Guide

Single Digit 7 Segment LED Display, Digit Height: 76.00mm(3.00inch), External Dimensions:
 70.00x110.00x13.00mm (L x W x H)

Part No.		Chip			I _V @I _F =20mA		I _V @I _F =20mA	
Common Cathode	Common Anode	Material	Color	WLD	One Seg		One DP	
					Min.	Typ.	Min.	Typ.
LD30011ARG	LD30011BRG	GaAlAs	Super Red	640	36	45	12	15
		GaP	Green	568	31.5	40.5	10.5	13.5
LD30011AURUG	LD30011BURUG	AlGaInP	Ultra Red	640	135	202.5	45	67.5
		AlGaInP	Ultra Green	573	135	202.5	45	67.5
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.	10.8	13.2	50	360	25	100
	Per DP	3.6	4.4	50	120	25	100
Green	Per Seg.	13.2	15	50	480	30	100
	Per DP	4.4	5	50	160	30	100
Ultra Red	Per Seg.	11.4	15.6	50	360	30	100
	Per DP	3.8	5.2	50	120	30	100
Ultra Green	Per Seg.	12.6	15.6	50	450	30	100
	Per DP	4.2	5.2	50	150	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.