

## LD80011A/B Series – 8 inch Large Assembly 7 Segment LED Display



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES



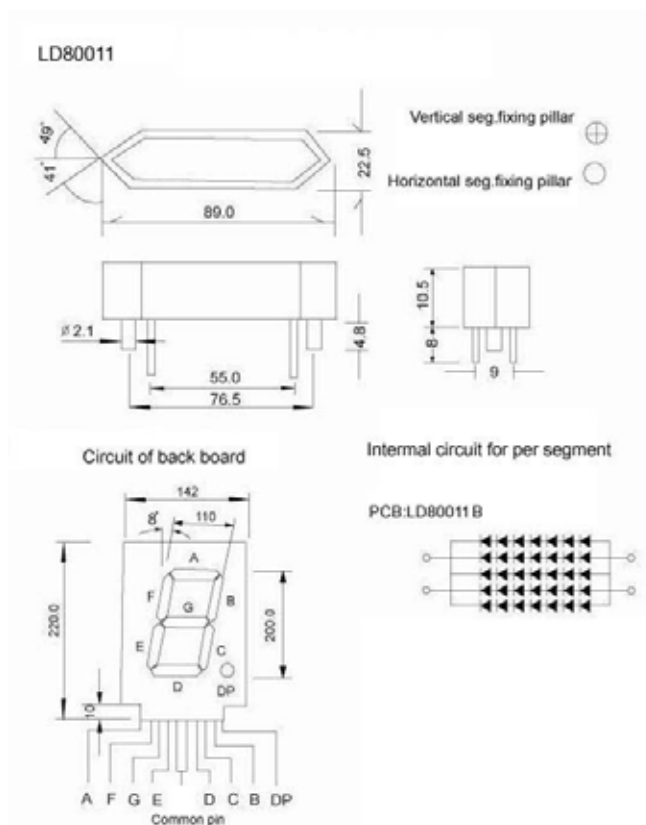
### Features

- 200 mm (18 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
- Both CA and CC versions are available
- Cropped terminal pins

### Package Dimensions & Internal Circuit Diagram



**Notes:**

1. All dimensions are in millimeters(inches), Tolerance is  $\pm 0.25\text{mm}(0.01\text{inch})$  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.

**Selection Guide (Ta = 25 °C )**

Single Digit 7 Segment LED Display, Digit Height: 200.00mm(8.00inch), External Dimensions: 142.00x220.00mm (LxWmm)						
Part No.		Chip			Iv@IF=20mA	
Common Cathode	Common Anode	Material	Color	WLD	One Seg	
					Min.	Typ.
LD80011AR	LD80011BR	GaAlAs	Super Red	640	210	262.5
LD80011AD	LD80011BD	GaAlAs	Hi-Red	640	472.5	656.3
LD80011AO	LD80011BO	GaAsP	Orange	625	183.75	236.3
LD80011AY	LD80011BY	GaAsP	Yellow	588	210	262.5
LD80011AG	LD80011BG	GaP	Green	568	183.75	236.3
LD80011AUR	LD80011BUR	AlGaInP	Ultra Red	640	787.5	1181
LD80011AUO	LD80011BUO	AlGaInP	Ultra Orange	625	1181.3	1575
LD80011AUA	LD80011BUA	AlGaInP	Ultra Amber	65	787.5	1181
LD80011AUY	LD80011BUY	AlGaInP	Ultra Yellow	595	787.5	1181
LD80011AUG	LD80011BUG	AlGaInP	Ultra Green	573	787.5	1181
LD80011APG	LD80011BPG	InGaN	Pure Green	525	3150	7875
LD80011AUB	LD80011BUB	InGaN	Ultra Blue	470	787.5	1181
LD80011AUW	LD80011BUW	SMD	Ultra White	\	2625	3150
Unit:	\	\	\	nm	mcd	mcd

## Electrical Characteristics & Absolute Maximum Ratings

Color		Electrical optical Characteristics <sup>[1]</sup>			Absolute Maximum Ratings <sup>[1]</sup>		
		Forward Voltage@ IF=20mA		Reverse Current VR=5V	Power Dissipation	DC Forward Current	Peak Forward Current <sup>[2]</sup>
		Typ.	Max.				
Super Red	Per Seg.	12.6	15.4	120	2100	125	500
Hi-Red	Per Seg.	12.6	15.4	120	2100	125	500
Orange	Per Seg.	14.7	17.5	120	2800	150	500
Yellow	Per Seg.	14.7	17.5	120	2800	150	500
Green	Per Seg.	15.4	17.5	120	2800	150	500
Ultra Red	Per Seg.	13.3	18.2	120	2100	150	500
Ultra Orange	Per Seg.	14	18.2	120	2275	150	500
Ultra Amber	Per Seg.	14	18.2	120	2275	150	500
Ultra Yellow	Per Seg.	14	18.2	120	2275	150	500
Ultra Green	Per Seg.	14.7	18.2	120	2625	150	500
Pure Green	Per Seg.	24.5	28	120	3850	150	500
Ultra Blue	Per Seg.	24.5	28	120	4200	150	500
Ultra White	Per Seg.	24.5	28	120	4200	150	500
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.