

LD10016A/B Series - 1.00 inch Single Digit 7 Segment LED Display



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



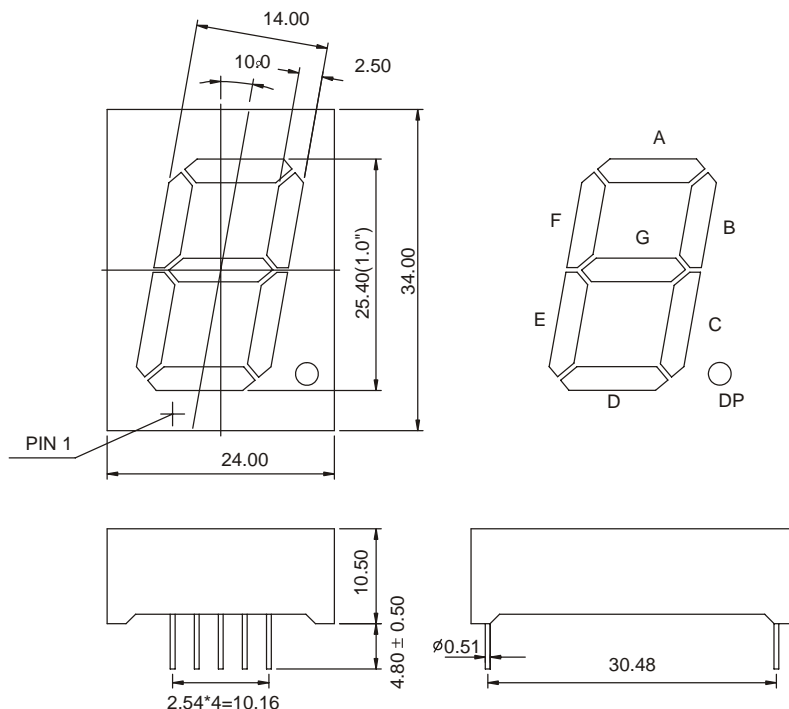
Features

- 25.40 mm (1.00 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

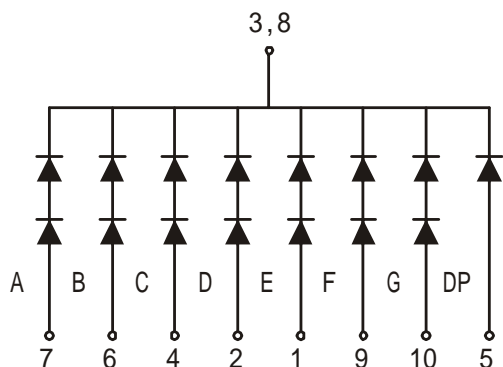


Notes:

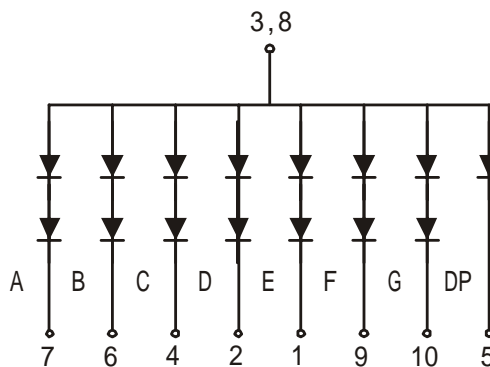
1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25\text{mm}$ (0.01inch) unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LD10016A (Common Cathode)



LD10016B (Common Anode)



Selection Guide

Single Digit 7 Segment LED Display, Digit Height: 25.40mm(1.00inch), External Dimensions: 24.00x34.00x10.50mm (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.
LD10016AR	LD10016BR	GaAlAs	Super Red	640	12	15	8	10
LD10016AD	LD10016BD	GaAlAs	Hi-Red	640	27	37.5	18	25
LD10016AO	LD10016BO	GaAsP	Orange	625	10.5	13.5	7	9
LD10016AY	LD10016BY	GaAsP	Yellow	588	12	15	8	10
LD10016AG	LD10016BG	GaP	Green	568	10.5	13.5	7	9
LD10016AUR	LD10016BUR	AlGaInP	Ultra Red	640	45	67.5	30	45
LD10016AUO	LD10016BUO	AlGaInP	Ultra Orange	625	67.5	90	45	60
LD10016AUA	LD10016BUA	AlGaInP	Ultra Amber	605	45	67.5	30	45
LD10016AUY	LD10016BUY	AlGaInP	Ultra Yellow	595	45	67.5	30	45
LD10016AUG	LD10016BUG	AlGaInP	Ultra Green	573	45	67.5	30	45
LD10016APG	LD10016BPG	InGaN	Pure Green	525	180	450	120	300
LD10016AUB	LD10016BUB	InGaN	Ultra Blue	470	45	67.5	30	45
LD10016AUW	LD10016BUW	SMD	Ultra White	\	150	180	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.