

LD5015E/F Series - 0.50 inch Single Digit 16 Segment LED Display



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



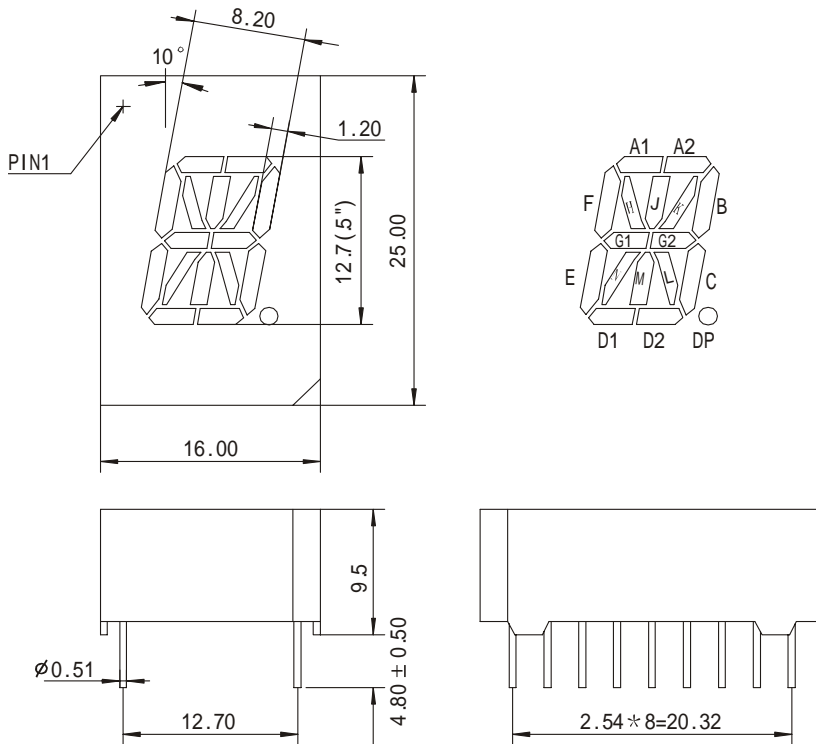
Features

- 12.70 mm (0.50 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

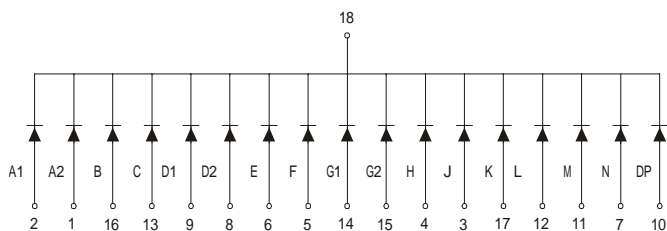


Notes:

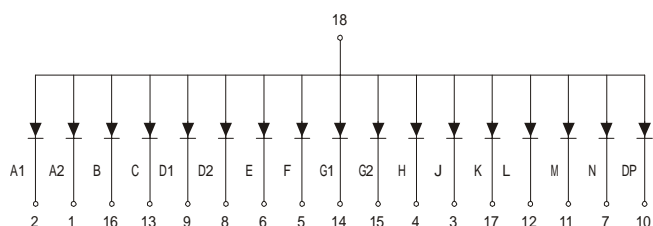
1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25\text{mm}$ (0.01inch) unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.

Internal Circuit Diagram

LD5015E (Common Cathode)



LD5015F (Common Anode)



Selection Guide

Single Digit 7 Segment LED Display, Digit Height:12.70mm(0.50 inch), External Dimensions: 16.00x25.00x9.50mm (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.
LD5015ER	LD5015FR	GaAlAs	Super Red	640	8	10	8	10
LD5015ED	LD5015FD	GaAlAs	Hi-Red	640	18	25	18	25
LD5015EO	LD5015FO	GaAsP	Orange	625	7	9	7	9
LD5015EY	LD5015FY	GaAsP	Yellow	588	8	10	8	10
LD5015EG	LD5015FG	GaP	Green	568	7	9	7	9
LD5015EUR	LD5015FUR	AlGaInP	Ultra Red	640	30	45	30	45
LD5015EUO	LD5015FUO	AlGaInP	Ultra Orange	625	45	60	45	60
LD5015EUA	LD5015FUA	AlGaInP	Ultra Amber	605	30	45	30	45
LD5015EUY	LD5015FUY	AlGaInP	Ultra Yellow	595	30	45	30	45
LD5015EUG	LD5015FUG	AlGaInP	Ultra Green	573	30	45	30	45
LD5015EPG	LD5015FPG	InGaN	Pure Green	525	120	300	120	300
LD5015EUB	LD5015FUB	InGaN	Ultra Blue	470	30	45	30	45
LD5015EUW	LD5015FUW	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	50	60	25	100
	Per DP	1.8	2.2	50	60	25	100
Hi-Red	Per Seg.	1.8	2.2	50	60	25	100
	Per DP	1.8	2.2	50	60	25	100
Orange	Per Seg.	2.1	2.5	50	80	50	100
	Per DP	2.1	2.5	50	80	50	100
Yellow	Per Seg.	2.1	2.5	50	80	50	100
	Per DP	2.1	2.5	50	80	50	100
Green	Per Seg.	2.2	2.5	50	80	50	100
	Per DP	2.2	2.5	50	80	50	100
Ultra Red	Per Seg.	1.9	2.6	50	60	50	100
	Per DP	1.9	2.6	50	60	50	100
Ultra Orange	Per Seg.	2	2.6	50	65	50	100
	Per DP	2	2.6	50	65	50	100
Ultra Amber	Per Seg.	2	2.6	50	65	50	100
	Per DP	2	2.6	50	65	50	100
Ultra Yellow	Per Seg.	2	2.6	50	65	50	100
	Per DP	2	2.6	50	65	50	100
Ultra Green	Per Seg.	2.1	2.6	50	75	50	100
	Per DP	2.1	2.6	50	75	50	100
Pure Green	Per Seg.	3.5	4	50	110	50	100
	Per DP	3.5	4	50	110	50	100
Ultra Blue	Per Seg.	3.5	4	50	120	50	100
	Per DP	3.5	4	50	120	50	100
Ultra White	Per Seg.	3.5	4	50	120	50	100
	Per DP	3.5	4	50	120	50	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.