

LED Display

Product Data Sheet

IE-58R-230N

Spec No.:

Effective Date: Oct 8, 2014

FEATURES

3.0 inch Matrix Height
Low Power Requirement
High Brightness and High Contrast
Excellent Characters Appearance
IC Compatible , Easy Assembly
RoHS Compliant

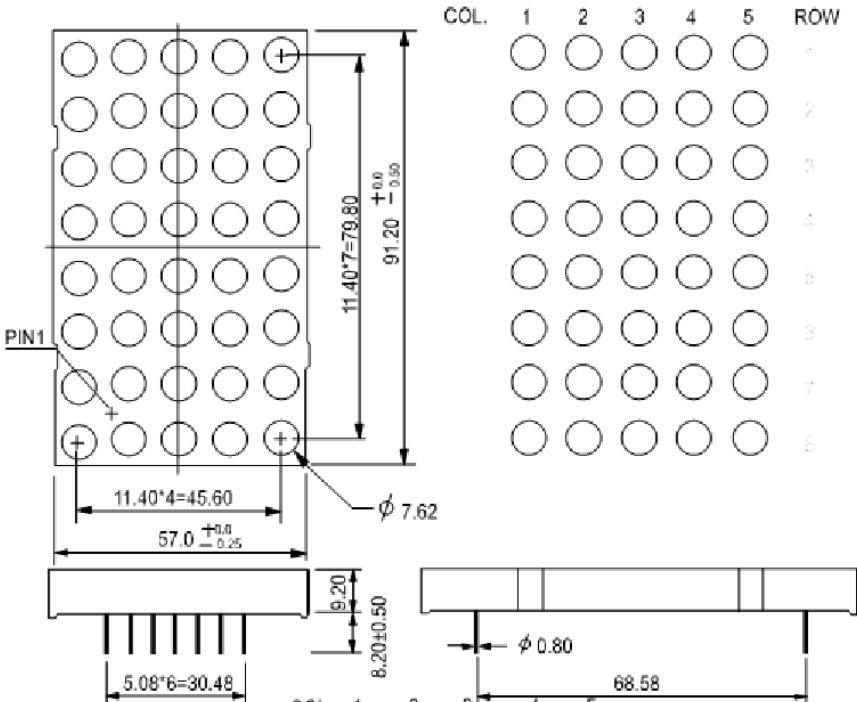
DESCRIPTION

This is a 3.0 inch matrix height 5×8 matrix LED display. This device utilizes red LED chips, which are made from AlGaInP, and has a black face and white dot color.

DEVICE

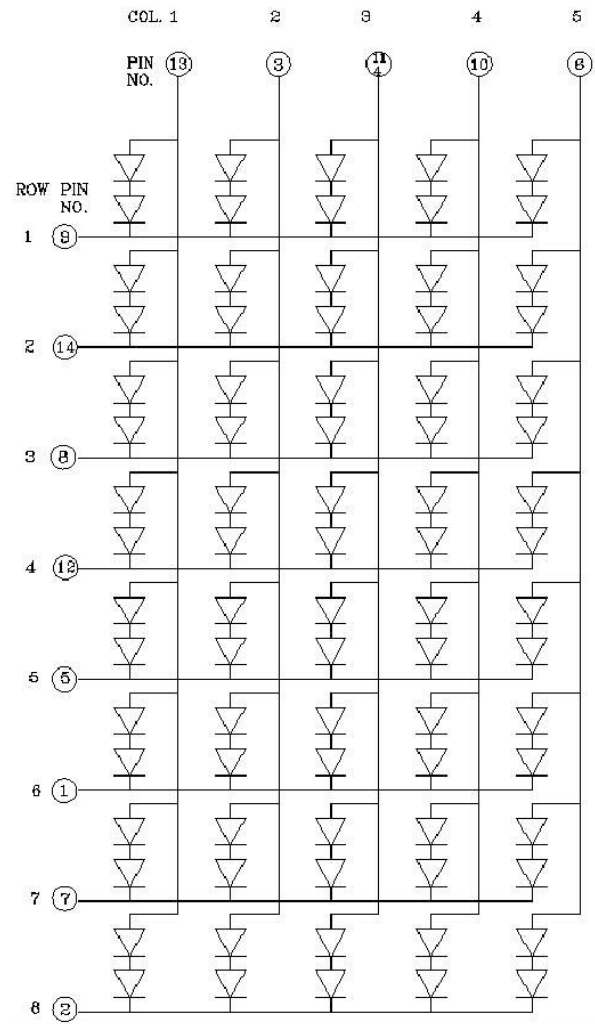
Red	Description
IE-58R-230N	Cathode Row, Anode Column
TOTAL 80 LED CHIPS	

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters (inches). Tolerance is ± 0.25 (0.010") unless otherwise specified.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION
1	Cathode Row 6
2	Cathode Row 8
3	Anode Column 2
4	Anode Column 3
11	
5	Cathode Row 5
6	Anode Column 5
7	Cathode Row 7
8	Cathode Row 3
9	Cathode Row 1
10	Anode Column 4
12	Cathode Row 4
13	Anode Column 1
14	Cathode Row 2

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

PARAMETER	SYMBOL	AlGaInP RED	UNIT
Power Dissipation Per Segment	PAD	50	mw
Reverse Voltage Per Segment	VR	5	V
Continuous Forward Current Per Segment	IAF	20	mA
Peak Forward Current Per Segment(Duty-0.1,1KHz)	IPF	60	mA
Operating Temperature Range	TOPr	-20°C to 80°C	
Storage Temperature Range	Tstg	-30°C to 85°C	
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 second			

ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C**AlGaInP RED**

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward Voltage, Per Segment	VF	IF=20mA	1.9	2.0	2.5	V
Reverse Current, Per Segment	IR	VR=5V			50	μA
Peak Emission Wavelength	λp	IF=20mA	630	633	637	nm
Luminous Intensity Per Segment	IV	IF=20mA	23	25	28	mcd

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES @ TA = 25°C

