

# **LED Display**

Product Data Sheet

IE-580-223U

## FEATURES

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

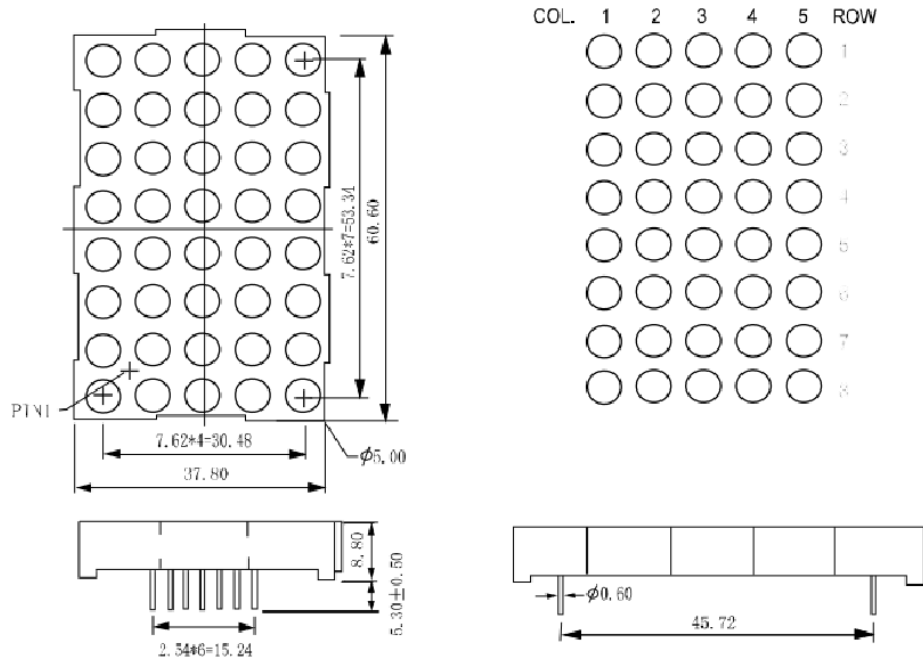
## DESCRIPTION

This is a 2.3 inch matrix height 5×8 matrix LED display. This device utilizes amber LED chips, which are made from AlGaInP, and has a black face and white dot color.

## DEVICE

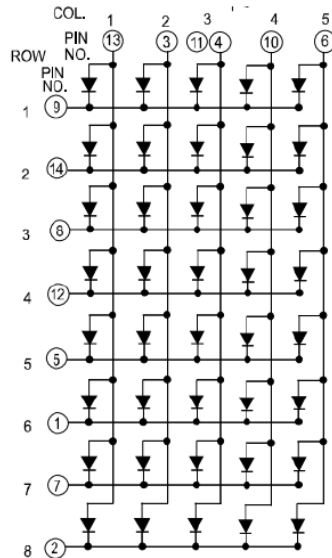
Amber	Description
IE-58O-223U	Cathode Row, Anode Column
TOTAL 40 LED CHIPS	

## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters (inches). Tolerance is  $\pm 0.25$  (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 AMBER	UNIT
Power Dissipation Per Segment	PAD	60	mw
Reverse Voltage Per Segment	VR	5	V
Continuous Forward Current Per Segment	IAF	25	mA
Peak Forward Current Per Segment(Duty-0.1,1KHz)	IPF	80	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 AMBER**

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	600	603	606	nm
Luminous Intensity Per Segment	IV	IF=10mA	50	60	70	mcd
		IF=20mA	100	120	140	

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

