LED Display

Product Data Sheet

IE-3R-10561N-G

Spec No.:

Effective Date: Nov 20, 2011

FEATURES

0.56 inch (14.20mm) Digit Height

Low Power Requirement

High Brightness and High Contrast

Excellent Characters Appearance

IC Compatible , Easy Assembly

RoHS Compliant

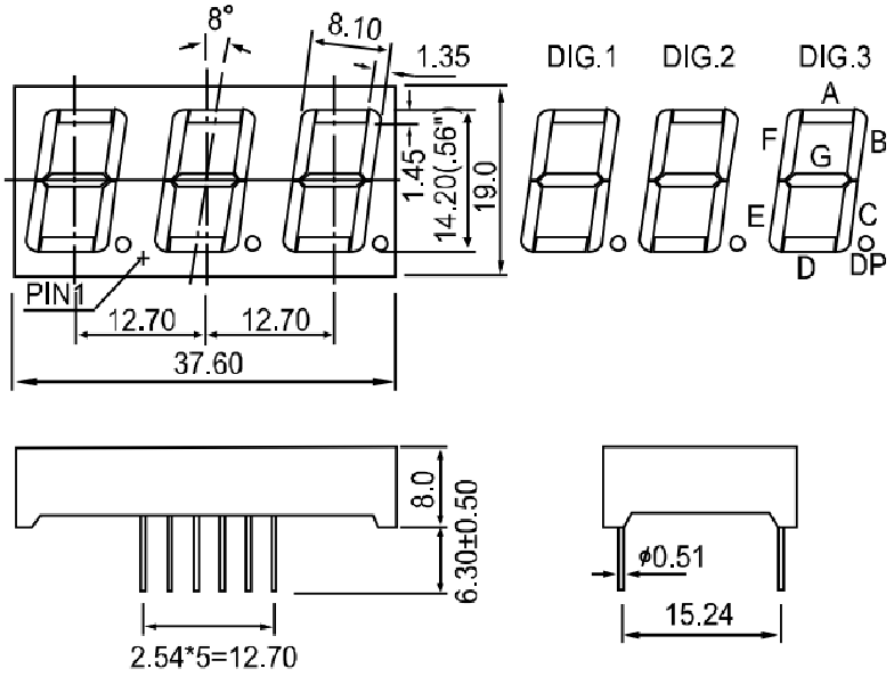
DESCRIPTION

This is a 0.56 inch (14.20mm) digit height triple digit seven segment LED display. This device utilizes red LED chips, which are made from AlGaInP, and has a gray face and white segments.

DEVICE

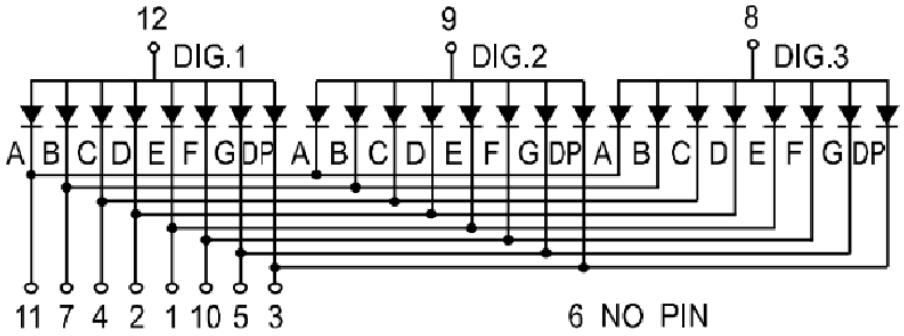
Red	Description
IE-3R-10561N-G	Common Anode, Right Hand Decimal
24 LED CHIPS	

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 E
2	CATHODE D
3	CATHODE DP1
4	CATHODE C
5	CATHODE G
6	NO PIN
7	CATHODE B
8	COMMON ANODE DIG 3
9	COMMON ANODE DIG 2
10	CATHODE F
11	CATHODE A
12	COMMON ANODE DIG 1

ABSOLUTE MAXIMUM RATINGS AT Ta=25℃

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℃ to 80℃	
Storage Temperature Range	Tstg	-30℃ to 85℃	
Lead Soldering Temperature 260℃ at 1.6mm From Body for 3 second			

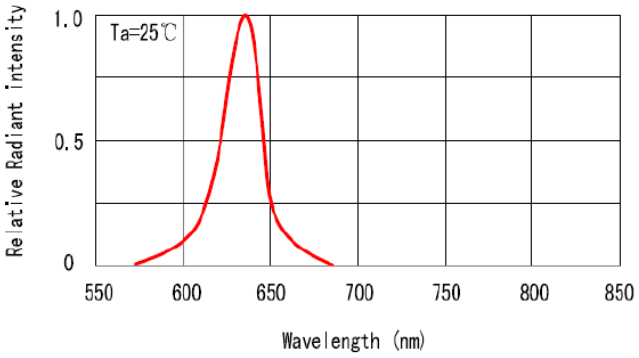
ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25℃

AlGaInP RED

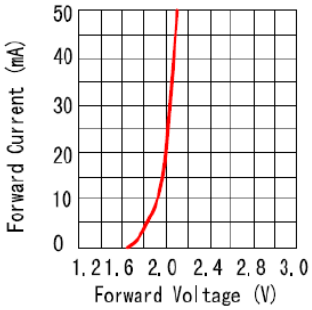
PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward Voltage, Per Segment	VF	IF=20mA	1.9	2.0	2.5	V
Reverse Current, Per Segment	IR	VR=5V			50	μA
Peak Emission Wavelength	λp	IF=20mA	630	633	637	nm
Luminous Intensity Per Segment	IV	IF=10mA	11	13	15	mcd
		IF=20mA	23	25	28	

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

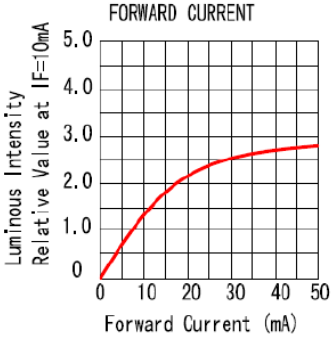
RELATIVE INTENSITY VS. WAVELENGTH



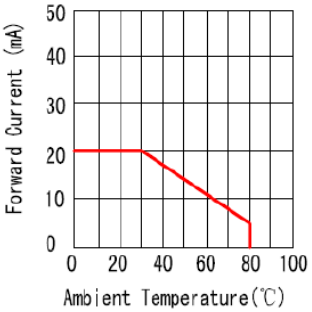
FORWARD CURRENT VS. FORWARD VOLTAGE



LUMINOUS INTENSITY VS. FORWARD CURRENT



ALLOWABLE FORWARD CURRENT AMBIENT TEMPERATURE



LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE