

LED Display

Product Data Sheet

IE-3B-20281B

Spec No.:

Effective Date: May 20, 2012

FEATURES

0.28 inch (7mm) Digit Height
Low Power Requirement
High Brightness and High Contrast
Excellent Characters Appearance
IC Compatible , Easy Assembly
RoHS Compliant

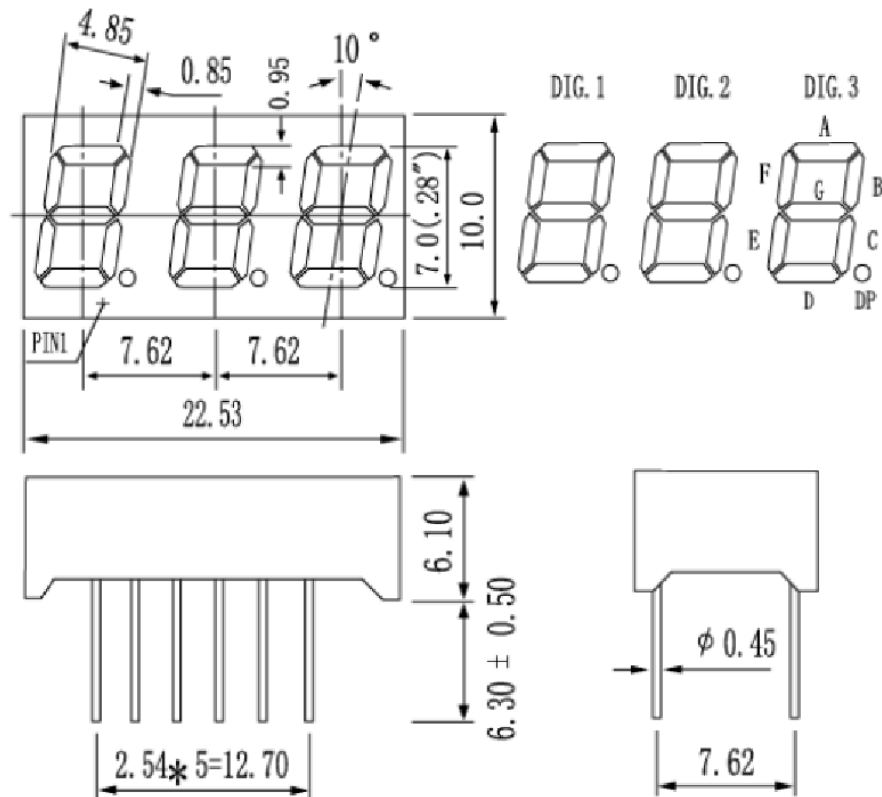
DESCRIPTION

This is a 0.28 inch (7mm) digit height triple digit seven segment LED display. This device utilizes blue LED chips, which are made from InGaN, and has a black face and white segments.

DEVICE

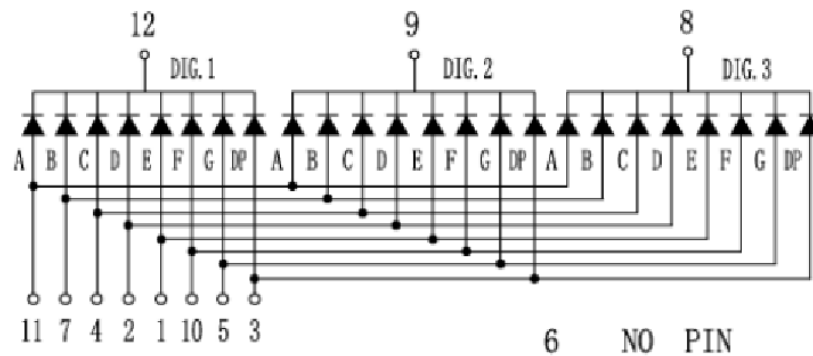
Blue	Description
IE-3B-20281B	Common Cathode, Right Hand Decimal
24 BLUE LED CHIPS	

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

ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

PARAMETER	SYMBOL	InGaN BLUE	UNIT
Power Dissipation Per Segment	PAD	70	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	100	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**InGaN BLUE**

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Forward Voltage, Per Segment	VF	IF=20mA	3	3.2	3.5	V
Reverse Current, Per Segment	IR	VR=5V			50	μA
Peak Emission Wavelength	λp	IF=20mA	460	462.5	465	nm
Luminous Intensity Per Segment	IV	IF=10mA	35	40	50	mcd
		IF=20mA	70	80	100	

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

