

Specification for approval

P/N (CUSTOMER P/N): IE-1R-21201N

(DATE): 2011 10 20

Type :
IE-1R-21201N



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■ **FEATURES:**

- High intensity and reliability
- High quality, Low power requirement and low cost
- IC compatible , Easy assembly
- Meet RoHS EU Directive
- ESD 2000V

■ **DESCRIPTION:**

- 1.2 Inch Single Digits Display
- Common Cathode
- Black face, white segment
- Lighting Color:

1、 RED

2、

3、

4、

5、

- Chips Materials

1、 AlGaInP

2、

3、

4、

5、

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■ ABSOLUTE MAXIMUM RATINGS AT $T_a=25^{\circ}\text{C}$:

PARAMETER	SYMBOL	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) 最大峰値電流	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 $T_a=25^{\circ}\text{C}$:

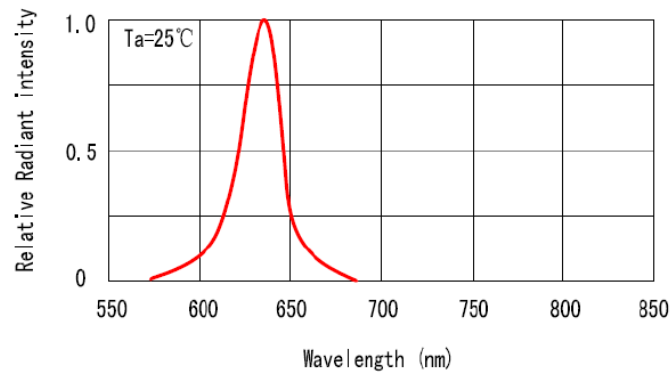
PARAMETER	SYMBOL	TEST CONDITION	Color	MIN	TYP	MAX	UNIT
Forward Voltage ,Per Segment	VF	IF=20mA	RED	1.9	2	2.5	V
Reverse Current , Per Segment	IR	VR=5V	RED			50	μA
Peak Emission Wavelength	λ_p	IF=20mA	RED	630	633	637	nm
Luminous Intensity Per Segment	IV	IF=20mA	RED	23	25	28	mcd

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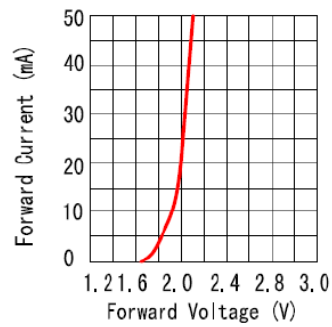


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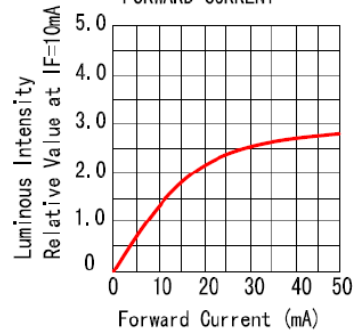
RELATIVE INTENSITY VS. WAVELENGTH



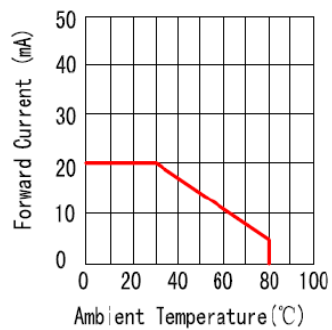
FORWARD CURRENT VS.
FORWARD VOLTAGE



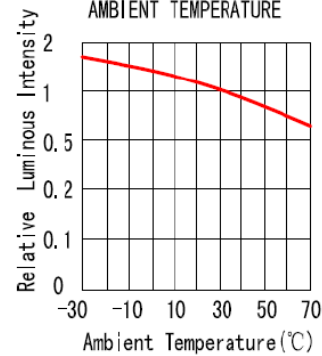
LUMINOUS INTENSITY VS.
FORWARD CURRENT



ALLOWABLE FORWARD CURRENT
AMBIENT TEMPERATURE



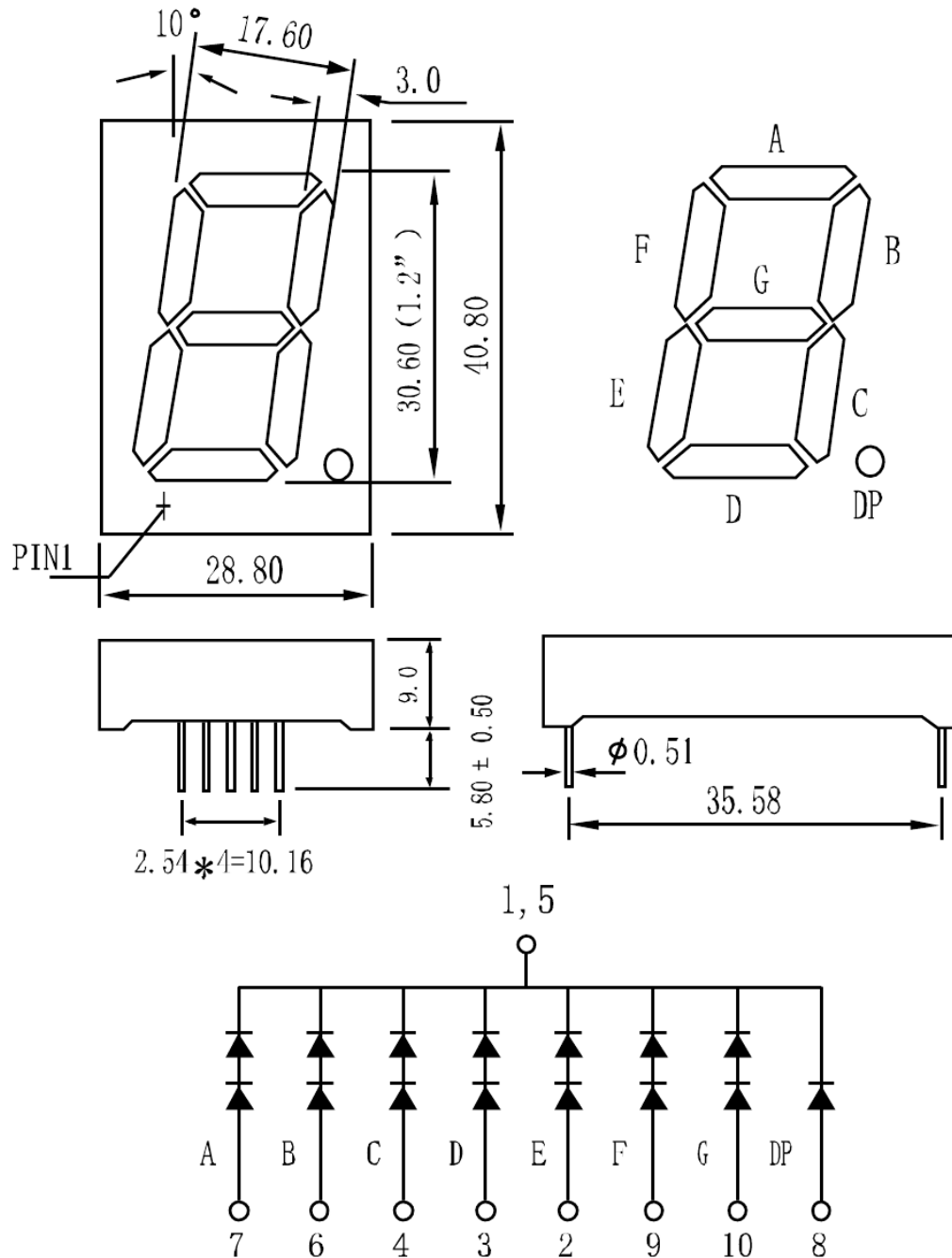
LUMINOUS INTENSITY VS.
AMBIENT TEMPERATURE



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NOTES : 1. All dimensions are in millimeters. (inches)

2. Tolerance is $\pm 0.25(0.010")$ unless otherwise specified.