



**THE DATASHEET OF  
ESD-SM1X1001**



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## DATA SHEET

ESL NO.. : ESD-SM1X1001

CUS NO. :

REV : A / 0

Producer: Eden

Auditor: \_\_\_\_\_

Approver: Jack

CUSTOMER'S APPROVAL : \_\_\_\_\_

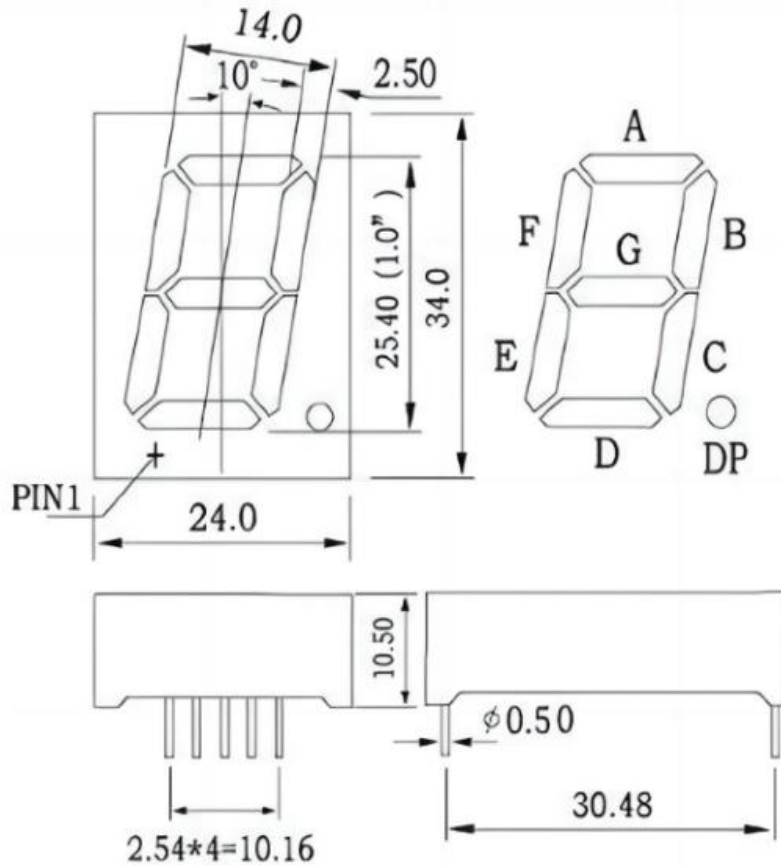
DCC : \_\_\_\_\_

# 1.0" Inch LED DISPLAY

ESD-SM1X1001

REV:A / 0

## ■ PACKAGE DIMENSIONS



### Note:

All dimensions are in millimeters (inches) tolerance are 0.25mm(0.010) unless otherwise noted

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## ■ FEATURES:

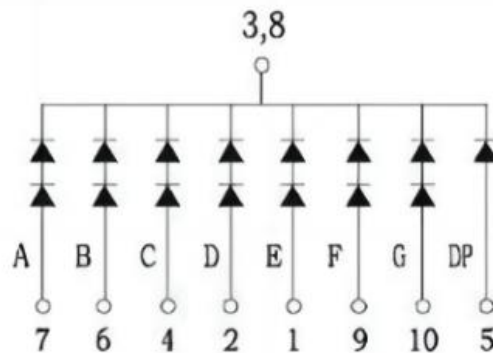
- 1.0" Inch LED DISPLAY
- High intensity and reliability
- High quality, Low power requirement
- IC compatible , Easy assembly

## ■ DESCRIPTION:

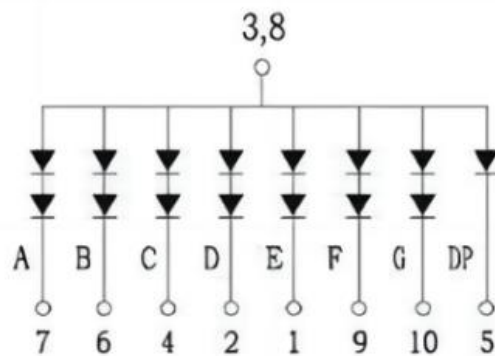
- Black face, White fields
- Common Anode ( SM111001 ) / Cathode(SM121001) Display
- Red Color(AIGaInP)
- RoHS Compliant

## ■ INTERNAL CIRCUIT DIAGRAM

SM121001\*



SM111001\*



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### ■ ABSOLUTE MAXIMUM RATINGS AT Ta=25°C:

PARAMETER	Max.	UNIT
Power Dissipation Per Segment	100	mW
Peak Forward Current Per Segment (1/10duty cycle 0.1ms pulse width)	100	mA
Average Forward Current Per Segment	30	mA
Derating Linear From 25°C Per Segment	0.33	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40°C to + 105°C	
Storage Temperature Range	-40°C to + 105°C	

Lead Soldering Temperature 260°C at 1.6mm From Body for 3 seconds

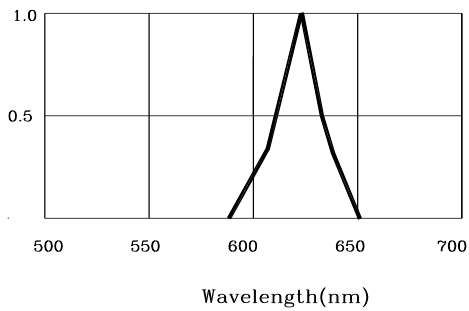
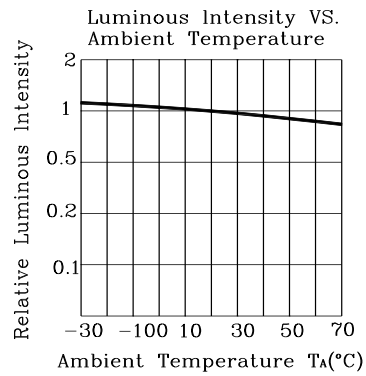
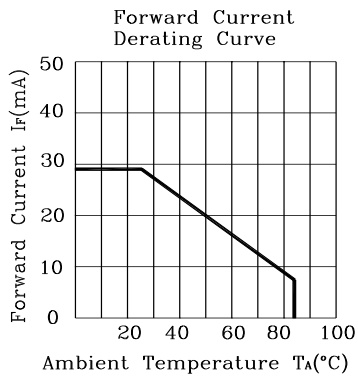
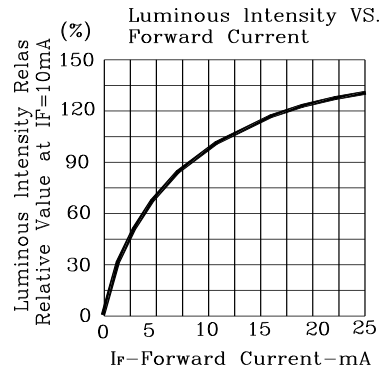
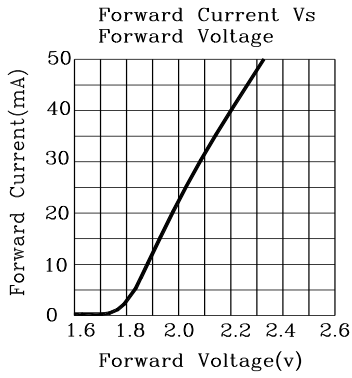
### ■ ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C:

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	$I_v$	10		30	mcd	$I_F=10mA$
Dominant Wavelength	$\lambda_d$	620		630	nm	$I_F=10mA$
Forward Voltage Per Dice	$V_F$	1.8		2.4	V	$I_F=10mA$
Reverse Current Per Dice	$I_R$	--	--	50	$\mu A$	$V_R=5V$

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■ Recommended SMT condition:

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