



**THE DATASHEET OF  
ESD-SM120567G5B**



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## DATA SHEET

ESL NO.. : ESD-SM120567G5B

CUS NO. :

REV : A / 0

Producer: *Eden*

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

Approver: *Jack*

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

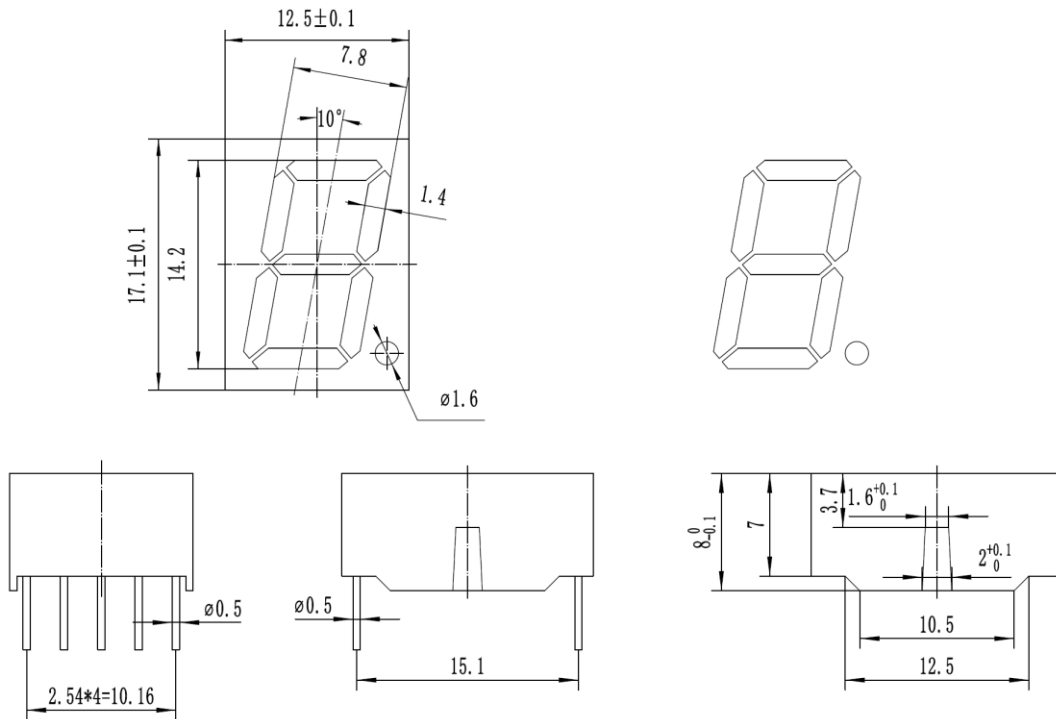
DCC : \_\_\_\_\_

# 0.56" Inch LED DISPLAY

## ESD-SM120567G5B

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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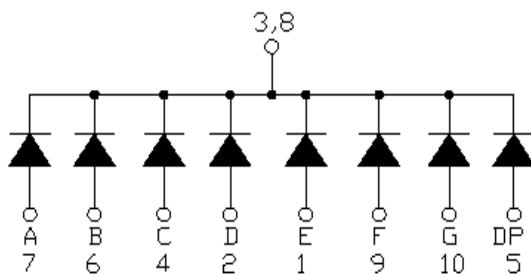
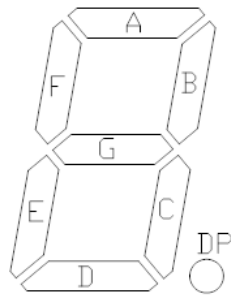
## ■ FEATURES:

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

## ■ DESCRIPTION:

- Gray face, White fields
- Common Cathode Display
- Yellow Green Color(AIGaInP)
- RoHS Compliant

## ■ INTERNAL CIRCUIT DIAGRAM



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

PARAMETER	Max.	UNIT
Power Dissipation Per Segment	75	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:

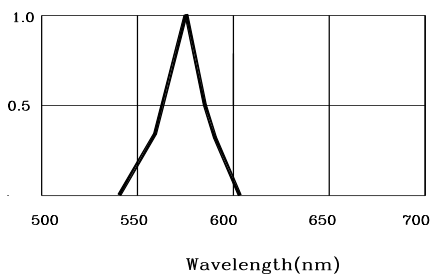
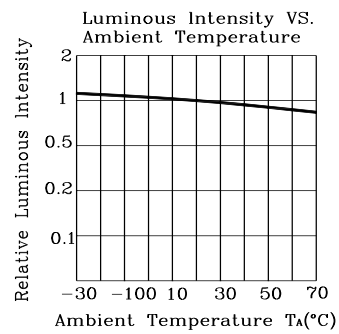
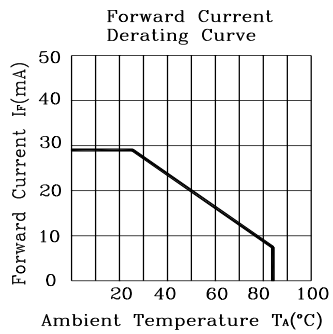
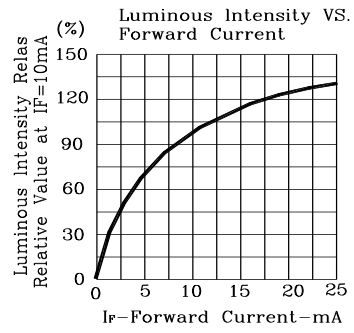
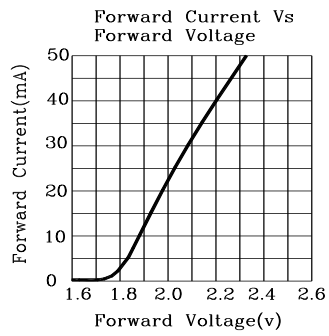
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	Test condition
Luminous Intensity Per Segment	I <sub>v</sub>	20		50	mcd	I <sub>F</sub> =10mA
Dominant Wavelength	λ <sub>d</sub>		569		nm	I <sub>F</sub> =10mA
Forward Voltage Per Dice	V <sub>F</sub>	1.8		2.4	V	I <sub>F</sub> =10mA
Reverse Current Per Dice	I <sub>R</sub>	--	--	50	μ A	V <sub>R</sub> =5V

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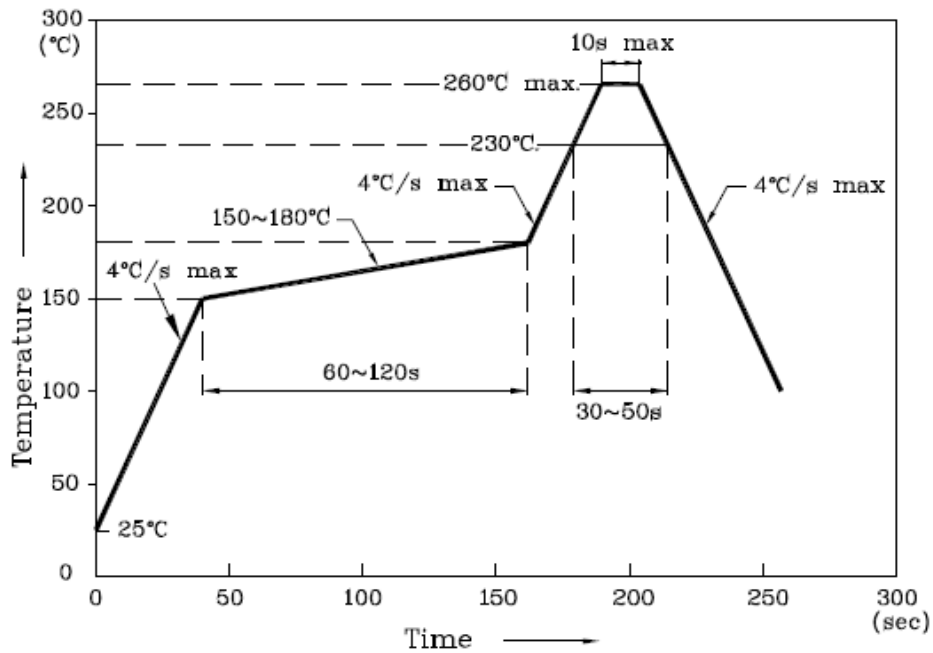
REV:A / 0

## SPECTRUM CHART



■ Recommended SMT condition:

Reflow Soldering Profile For Lead-free SMT Process.





Notes:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

## Looking for pricing, stock, or lifecycle information?

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-  [Shanghai Everstar Electronics Co., Ltd. Information](#)

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