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## DATA SHEET

ESL NO.. : ESD-056HBBW-CAS1

CUS NO. :

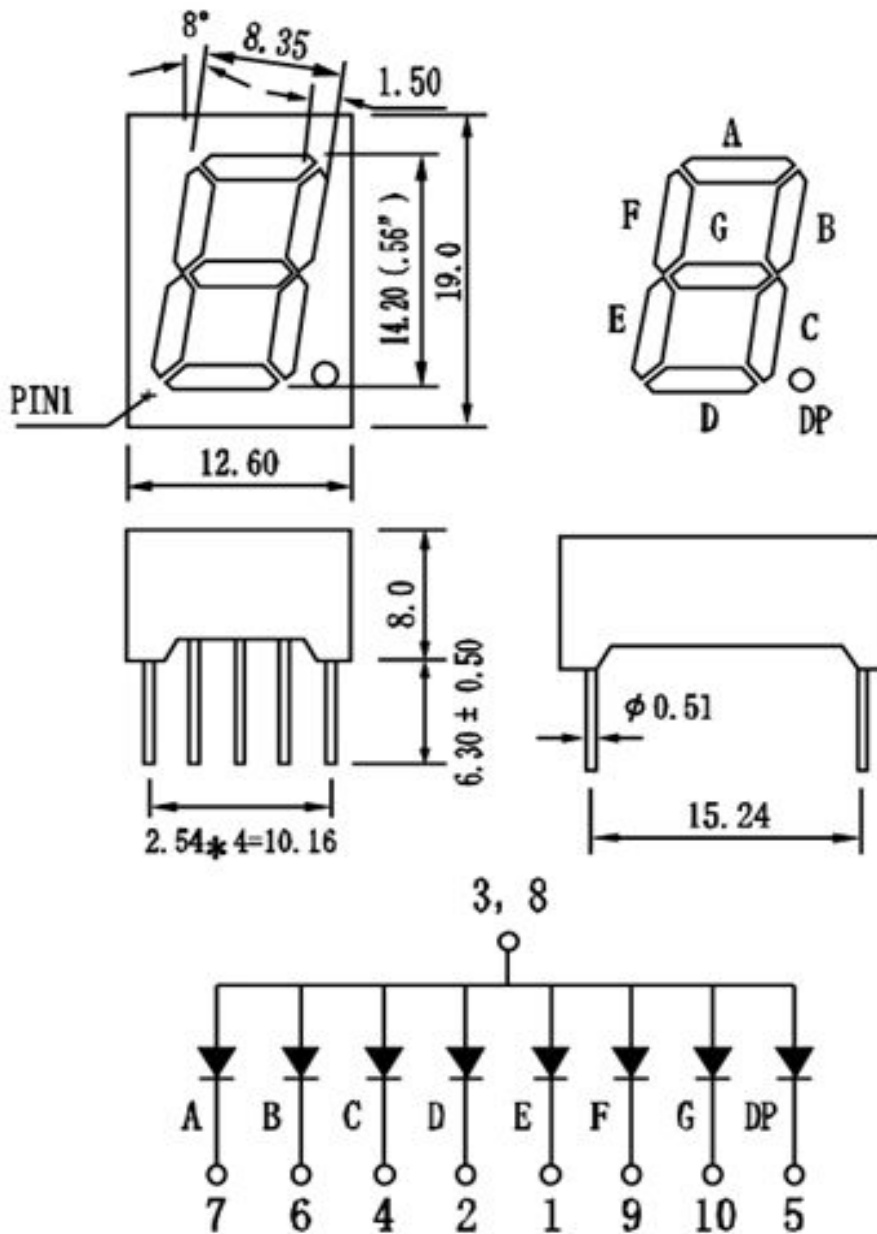
REV : A / 0

Producer: \_\_\_\_\_ Auditor: \_\_\_\_\_ Approver: \_\_\_\_\_

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

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

### PACKAGE DIMENSIONS



**Note:**

1. All Dimensions are in millimeters.
2. Tolerance is  $\pm 0.25\text{mm}$  (0.010 ") Unless otherwise specified.



# 0.56 Inch Single Digit Display

ESD-056HBBW-CAS1

REV:A / 0

## ■ 产品特征 FEATURES :

- 高可靠性和高稳定性

High intensity and reliability

- 高品质、和低功耗、低成本

High quality, Low power requirement and low cost

- IC 易兼容、易装配

IC compatible , Easy assembly

- 符合 RoHS 指令要求

Meet RoHS EU Directive

- 静电承受能力 200V

ESD 200V

## ■ 产品描述 DESCRIPTION :

- 0.56 英寸单位数码管

0.56 Inch Single Digit Display

- 极性共阳

Common Anode

- 黑面，白胶

Black face, white segment

- 发光颜色

Luminous Color :

蓝色 Blue

- 晶片材质

Chips Materials

- 1、AlGaInP



# 0.56 Inch Single Digit Display

## ESD-056HBBW-CAS1

REV:A / 0

### 产品最大绝对参数值 (Ta : 25°C) ABSOLUTE MAXIMUM RATINGS AT Ta=25°C :

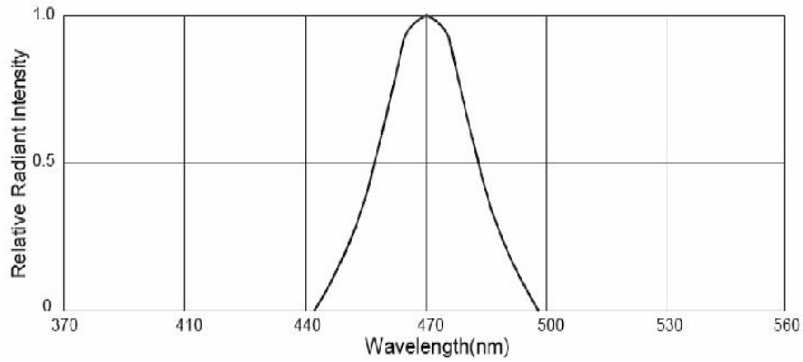
PARAMETER 项目	SYMBOL 符号	Blue 蓝色	UNIT 单位
Power Dissipation Per Segment 功耗	PAD	100	mw
Reverse Voltage Per Segment 反向耐压	VR	5	V
Continuous Forward Current Per Segment 最大使用电流	IAF	30	mA
Peak Forward Current Per Segment(Duty-0.1,1KHz) 最大峰值电流	IPF	100	mA
Operating Temperature Range 工作温度	TOPr	-20°C to 80°C	
Storage Temperature Range 贮藏温度	Tstg	-30°C to 85°C	
Lead Soldering Temperature 260°C at 1.6mm From Body for 3 second 焊接温度 260°C/3 秒 距离胶体 1.6mm 以上			

### 产品光电参数值 (Ta : 25°C) ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25°C :

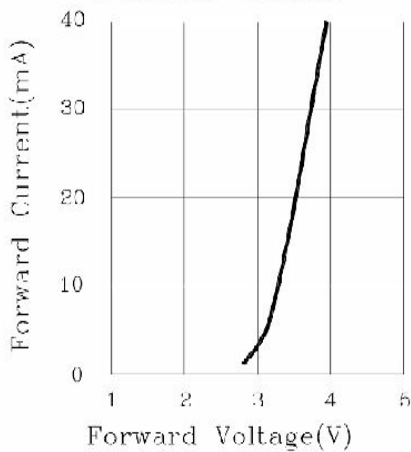
PARAMETER 项目	SYMBOL 符号	TEST CONDITION 测试条件	Color 颜色	MIN 最小值	TYP 标准值	MAX 最大值	UNIT 单位
Forward Voltage ,Per Segment 正向压降	VF	IF=20mA	蓝色 Blue	3	3.2	3.5	V
Reverse Current , Per Segment 反向漏电流	IR	VR=5V	蓝色 Blue			50	μA
Peak Emission Wavelength 峰值波长	λp	IF=20mA	蓝色 Blue	460	462.5	465	nm
Luminous Intensity Per Segment 法向光强	IV	IF=20mA	蓝色 Blue	70	80	100	mcd

(25°C Ambient Temperature Unless Otherwise Noted)

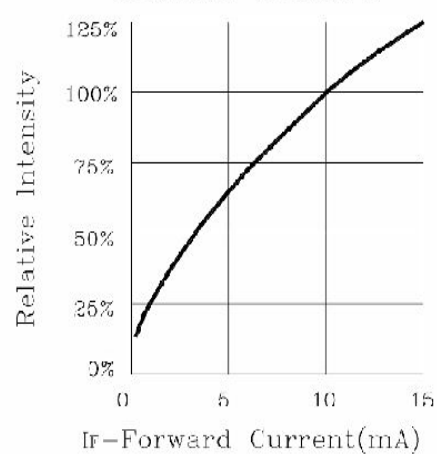
Fig.1 Relative Radiant Intensity VS. Wavelength



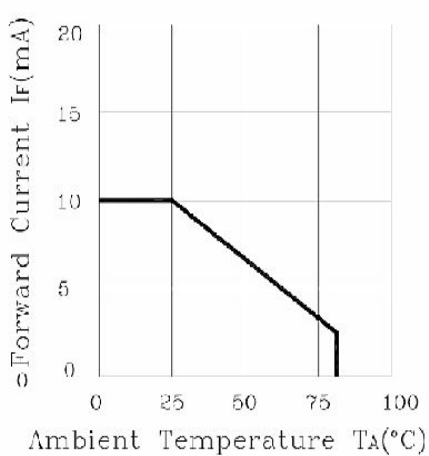
FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

