



PRODUCT SPECIFICATION

Model No.: CSDD-56203V

Descriptions:
<ul style="list-style-type: none"> ■ 0.56 Inch Dual Digit Display ■ Common Cathode ■ Emitting Color: Super Bright Orange ■ Black Face ■ White Segment



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

CHINA SEMICONDUCTOR CORPORATION
Address: 2FL. NO.909, Chung-Cheng Road,
Chung-Ho City Taipei Hsien, Taiwan.

Tel: 886-2-2223-9696
Fax: 886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD
Address: 696 Shun jiang Rd., Shaoxing,
ZheJiang, China

Tel: 86-0575-88623888
Fax: 86-0575-88623112



Model No.: CSDD-56203V

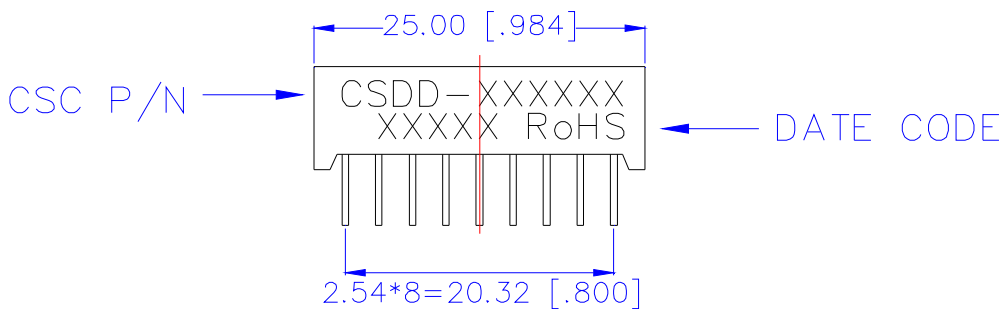
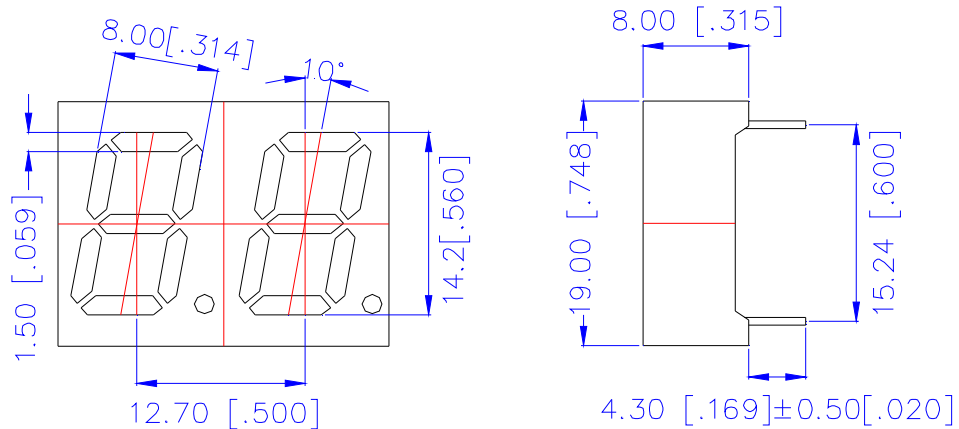
Features -

1. 0.56 inch (14.20mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. Standard: black face, white segment.
6. Easy mounting on P.C. board or socket.

Device Selection Guide -

Model No.	Chip		Description
	Material	Emitting Color	
CSDD-56203V	AlGaInP	Super Bright Orange	Common Cathode

Mechanical Dimensions -



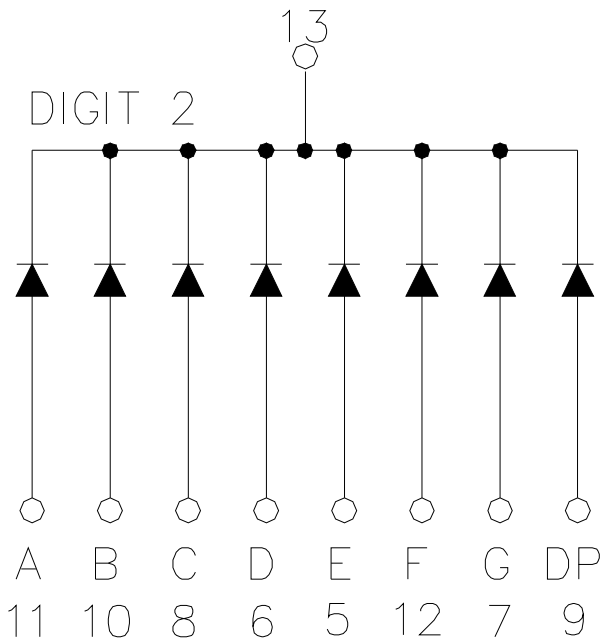
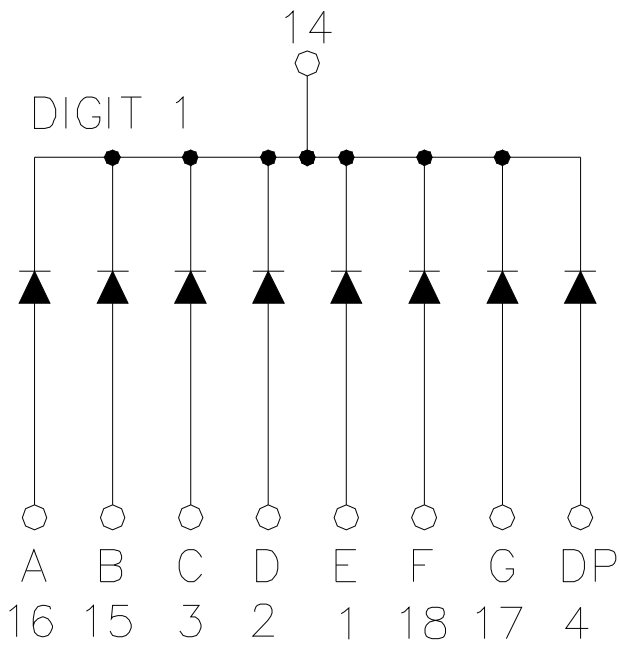
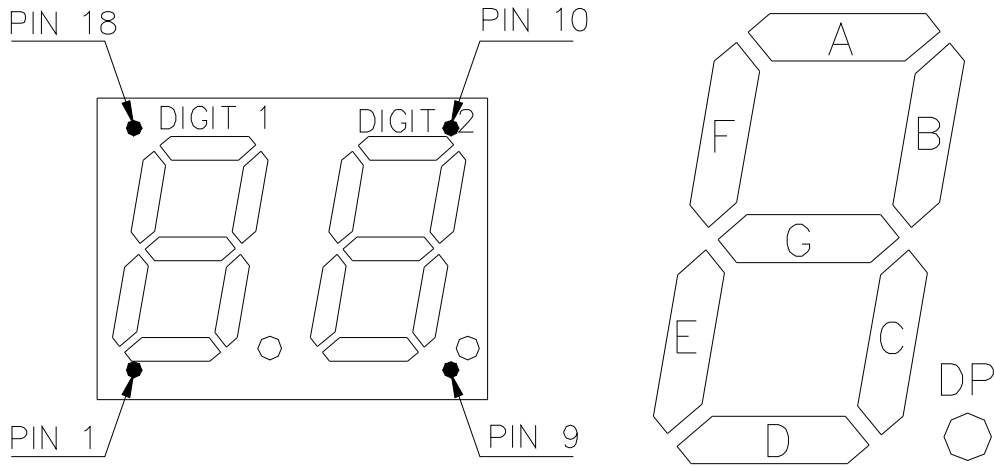
Notes:

1. All pins are $\Phi 0.51[.020]$
2. Dimension in millimeter [inch], tolerance is $\pm 0.25 [0.010]$ and angle is $\pm 1^\circ$ unless otherwise noted.
3. Bending \leq Length*1%.



Model No.: CSDD-56203V

Internal Circuit Diagrams -





Model No.: CSDD-56203V

■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P_{AD}	70	mW
Derating Liner from 25°C per Dice	-	0.33	mA/°C
Continuous Forward Current Per Dice	I_{AF}	25	mA
Peak Current Per Dice(duty cycle 1/10,1KHz)	I_{PF}	90	mA
Reverse Voltage Per Dice	V_R	5	V
Operating Temp.	T_{opr}	-35 ~ +85	°C
Storage Temp.	T_{stg}	-35 ~ +85	°C

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	2.0	2.8	V	$I_F=20mA$
Luminous Intensity Per Segment	I_v	15	42	-	mcd	$I_F=10mA$
Peak Emission Wavelength	λ_P	-	632	-	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-	624	-	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	$I_F=20mA$
Reverse Current	I_R	-	-	100	μA	$V_R=5V$
Luminous Intensity Matching Ratio	I_V-m	-	-	2:1	-	$I_F=10mA$



Model No.: CSDD-56203V

■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

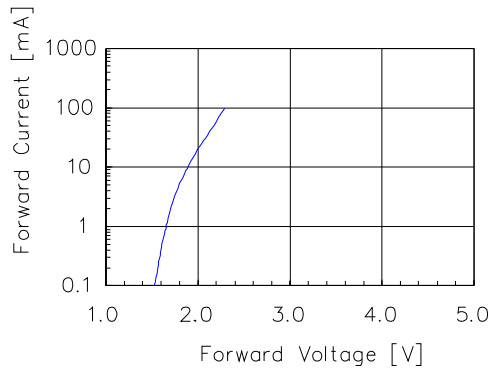


Fig 1. Forward Current vs. Forward Voltage

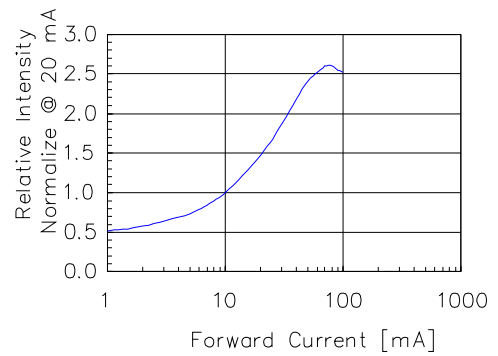


Fig 2. Relative Intensity vs. Forward Current

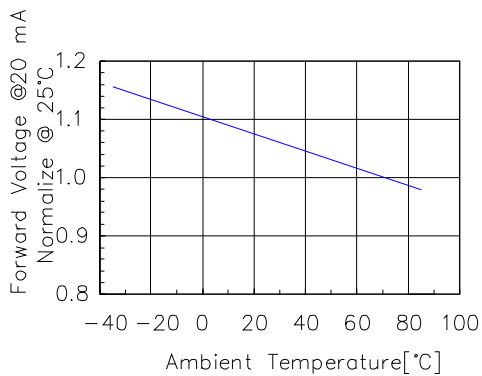


Fig 3. Forward Voltage vs. Temperature

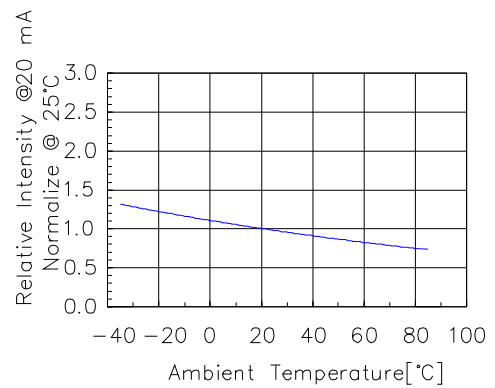


Fig 4. Relative Intensity vs. Temperature

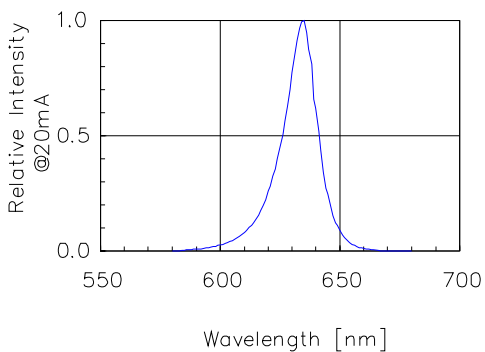


Fig 5. Relative Intensity vs. Wavelength

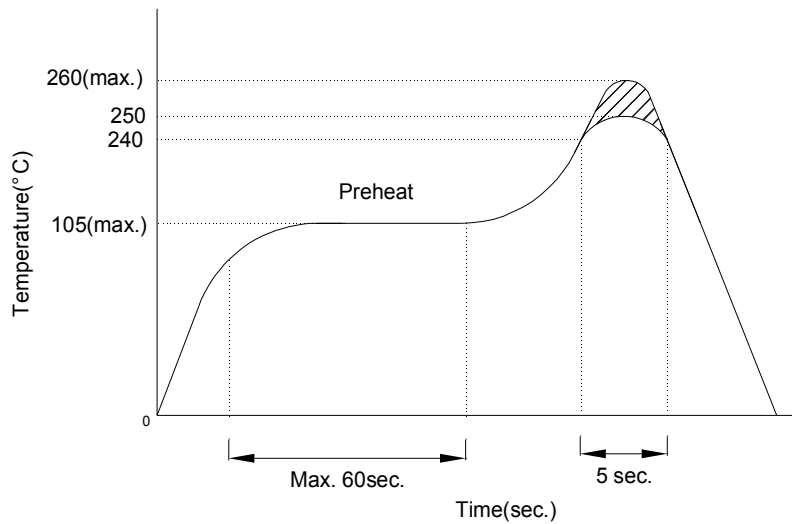


Model No.: CSDD-56203V

■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



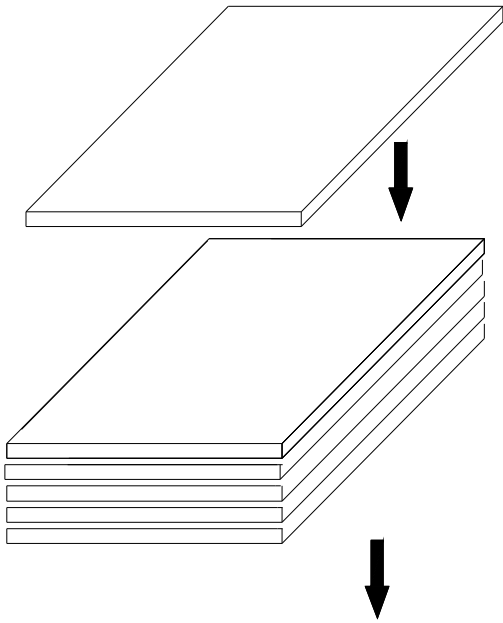
2. Soldering Iron

Basic SPEC. is ≤ 5 sec. When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1$ sec.). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C .



Model No.: CSDD-56203V

■ Package Dimensions



88 Pcs Per PE.foam
PE.foam Size:
L295xW195xH15mm

10 PE.foam Per Box
Q'TY :880 PCS
Box Size:
L300*W205*H240mm