

PRODUCT SPECIFICATION

Model No.: CSOS-S56124 CSOS-S56125

Descriptions:
<ul style="list-style-type: none"> ■ 0.56 Inch Single Digit Display ■ CSOS-S56124 is Common Anode ■ CSOS-S56125 is Common Cathode ■ Emitting Color: White ■ Standard: -11: Gray face, white segment. -21: Black face, white segment.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Model No.: CSOS-S56124 CSOS-S56125

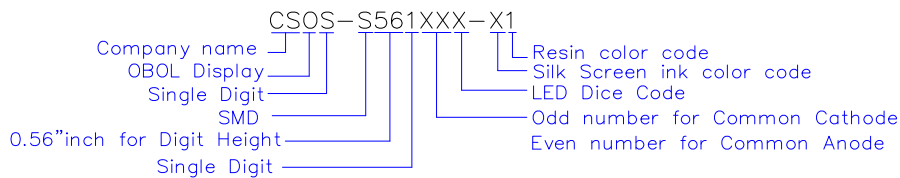
■ Features -

1. 0.56 inch (14.22mm) digit height.
2. Qualified according to JEDEC moisture sensitivity Level 2a.
3. RoHS compliant.
4. Low power consumption.
5. Easy mounting on P.C. board.

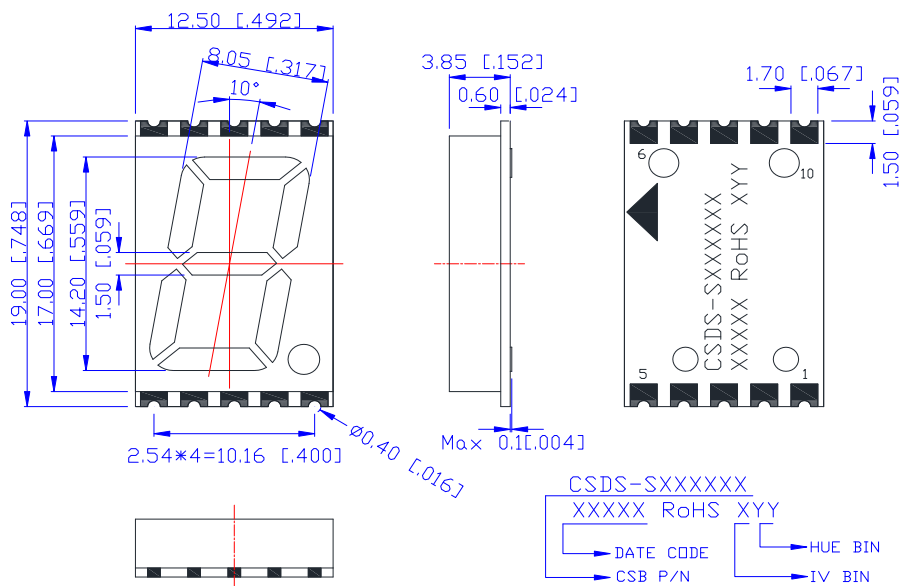
■ Device Selection Guide -

Model No.	Chip	
	Material	Emitting Color
CSOS-S5612xW	InGaN	White

■ LED Numeric/Alphanumeric Display



■ Mechanical Dimensions -

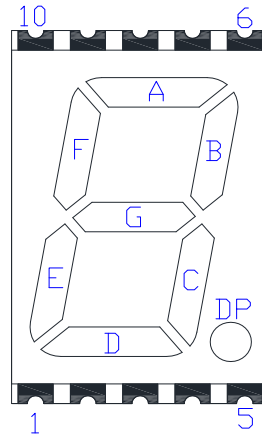


Notes:

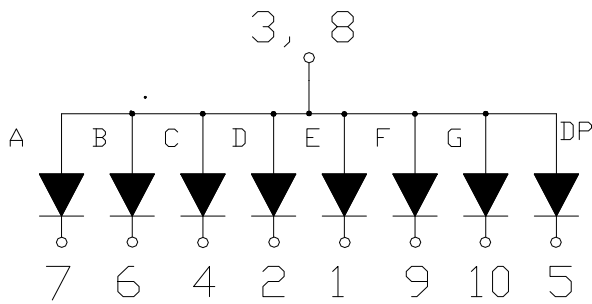
1. Dimension in millimeter [inch], tolerance is ± 0.25 [.010] and angle is $\pm 1^\circ$ unless otherwise noted.
2. Bending \leq Length*1%.

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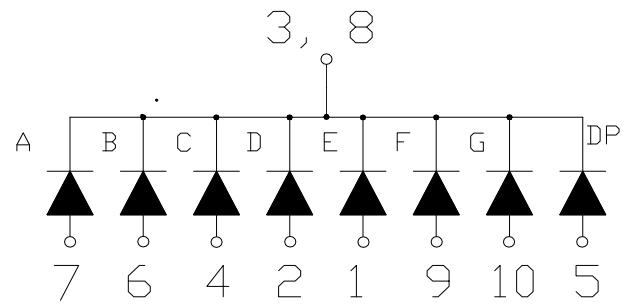
■ All Light On Segments Feature & Pin Position



■ Internal Circuit Diagrams -



CSOS-S56124 is Common Anode



CSOS-S56125 is Common Cathode

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■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P _{AD}	114	mW
Derating Liner from 25°C per Dice	-	0.4	mA/°C
Continuous Forward Current Per Dice	I _{AF}	30	mA
Peak Current Per Dice(duty cycle 1/10,1KHz)	I _{PF}	100	mA
Reverse Voltage Per Dice	V _R	5	V
Electrostatic discharge(HBM)	ESD	1000	V
Operating Temp.	T _{opr}	-40 ~ +105	°C
Storage Temp.	T _{stg}	-40 ~ +105	°C

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V _F	-	3.2	3.8	V	I _F =20mA
Luminous Intensity Per Segment	I _v	-	60	-	mcd	I _F =10mA
Chromaticity Coordinates (Tolerance: ±0.01)	X	-	0.27	-	-	I _F =10mA
	Y	-	0.25	-		
Reverse Current	I _R	-	-	50	μA	V _R =5V
Luminous Intensity Matching Ratio	I _{v-m}	-	-	2:1	-	I _F =10mA

Notes:The device can not operated under continuous reverse voltage.

■ Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

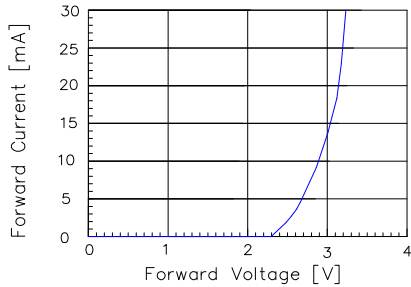


Fig 1. Forward Current vs. Forward Voltage

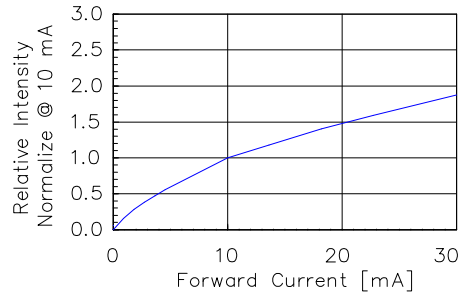


Fig 2. Relative Intensity vs. Forward Current

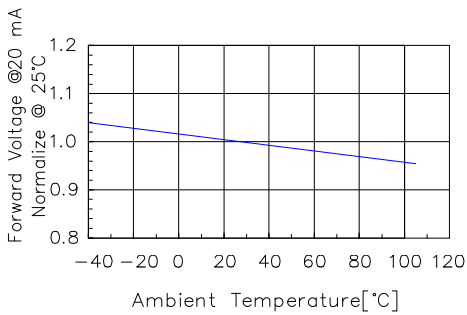


Fig 3. Forward Voltage vs. Temperature

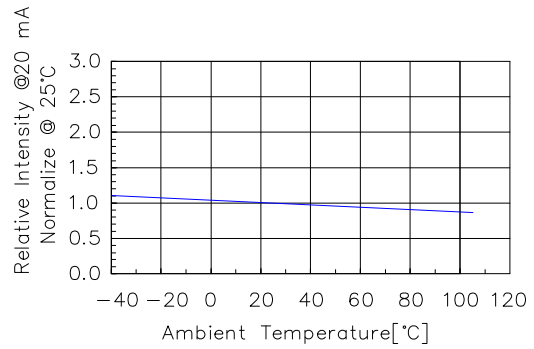


Fig 4. Relative Intensity vs. Temperature

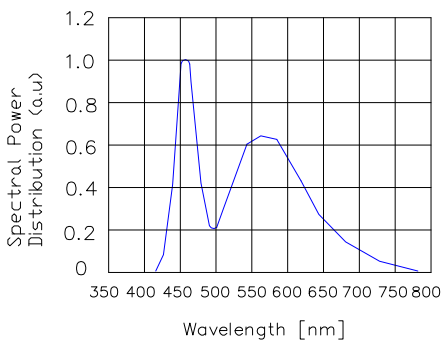


Fig 5. Spectral Power Distribution vs. Wavelength

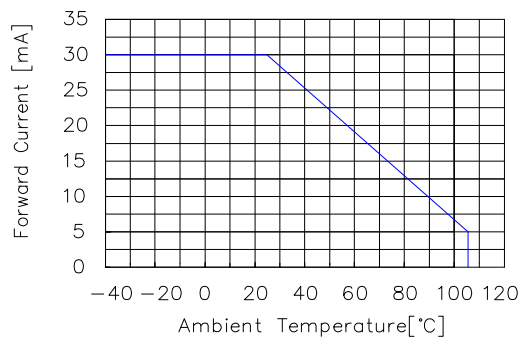
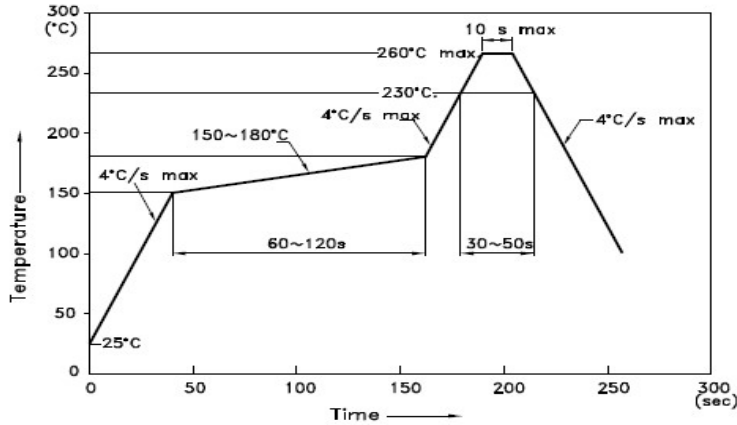


Fig 6. Forward current vs. Temperature

SMT REFLOW SOLDERING INSTRUCTIONS

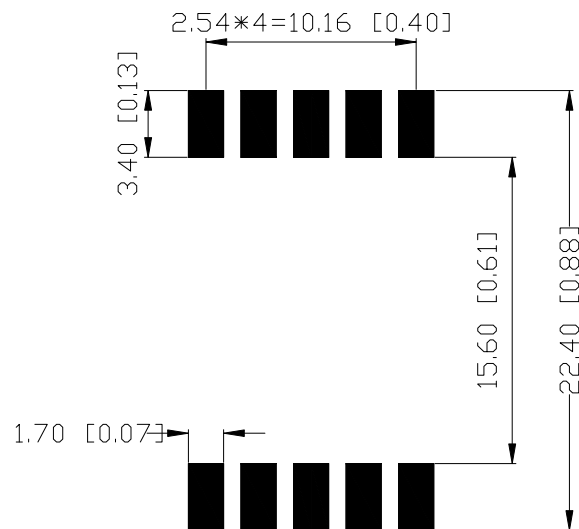
■ IR Reflow Temperature / Time :



NOTES:

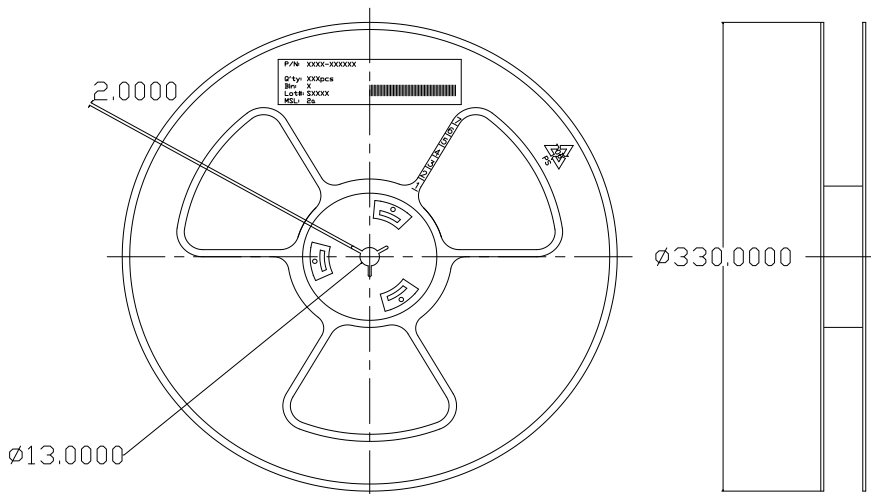
1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

■ Soldering Pad Size

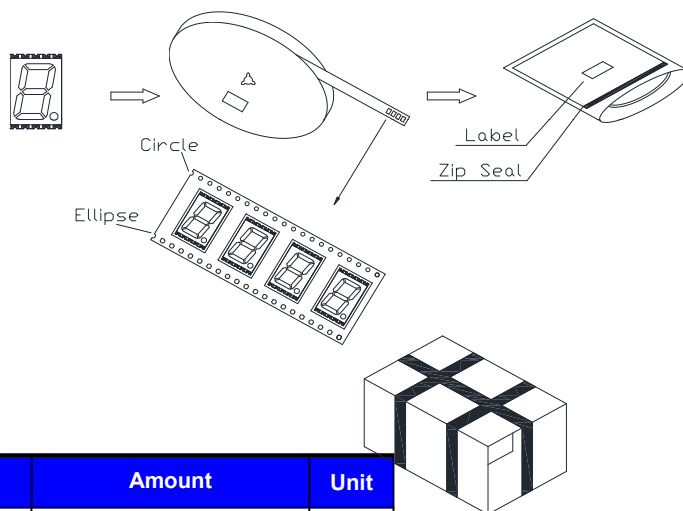


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REEL DIMENSIONS



PACKING & LABEL SPECIFICATIONS



Amount	Unit	Amount	Unit
1	Reel	750	Pcs
1	Reel	750	Pcs
5	Bag	3750	Pcs

Note: The specifications are subject to change without notice. Please contact us for updated information.