

PRODUCT SPECIFICATION

Model No.: GS3011A/CX-X

Descriptions & Features:

- 0.30 Inch (7.62mm) digit height, Single Digit SMD Display
- Case mold type.
- RoHS compliant.
- Low current operation
- Low power consumption.
- Easy mounting on P.C. board or socket.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

GUANGCAI DISPLAY TECHNOLOGY CO.,LTD

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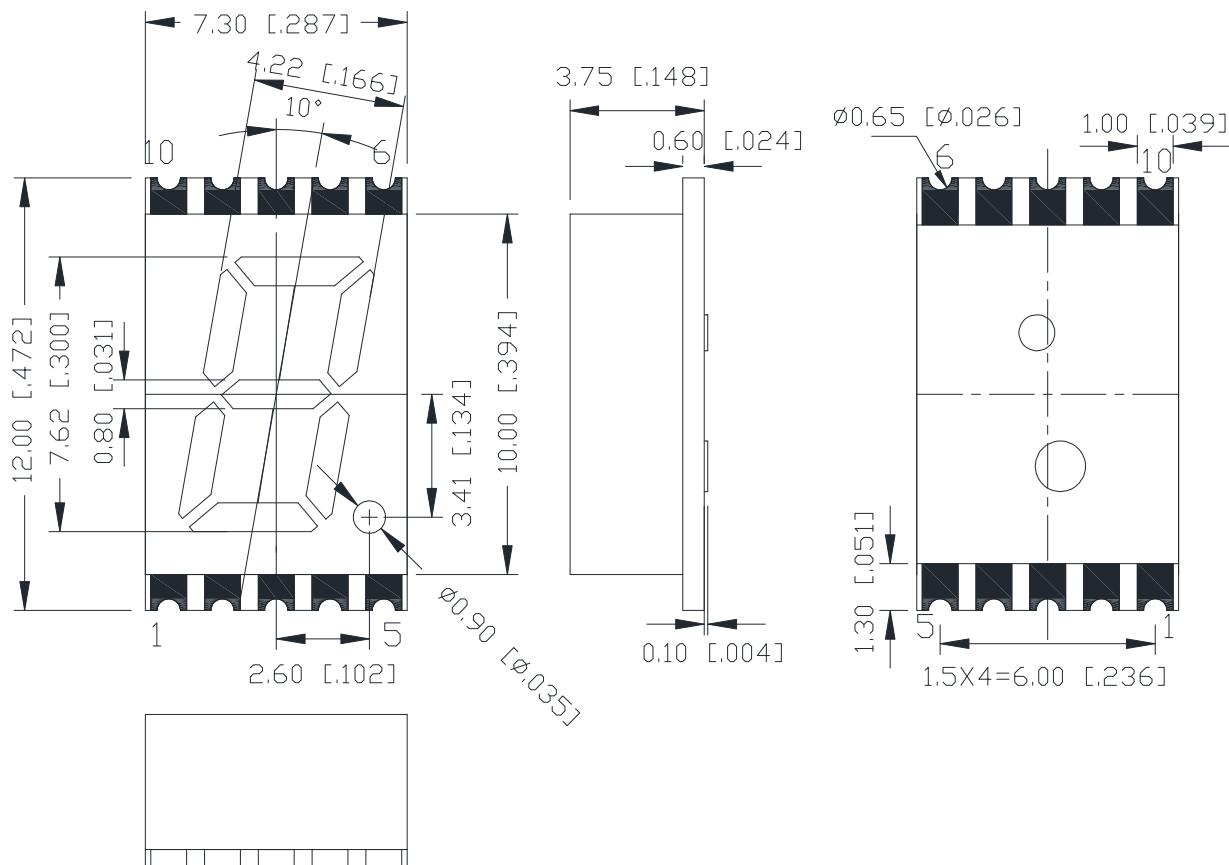
E-mail: Sales@smddisplay.com (General)

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■ -X: REF Surface

Color	Number	B	G
REF Surface Color		<input type="radio"/> Black	<input type="radio"/> Gray

■ Mechanical Dimensions

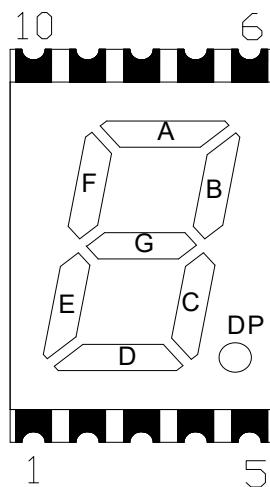


Notes:

- 1.. All dimensions are in millimeters (inches)
2. Dimension in millimeter [inch], tolerance is ± 0.25 [.010] and angle is $\pm 1^\circ$ unless otherwise noted.
3. Bending \leqslant Length * 1%.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
5. The drawing is different from the actual one, please refer to the sample.

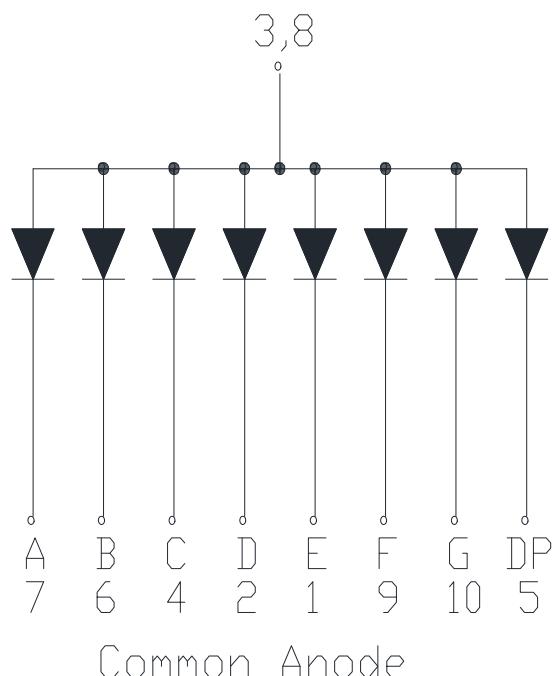
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■ All Light On Segments Feature & Pad Position



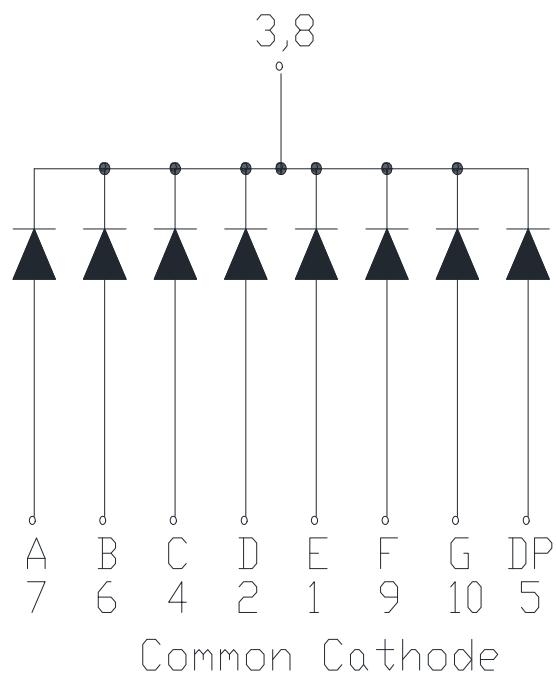
■ Internal Circuit Diagrams

GS3011Ax



Common Anode

GS3011Cx



Common Cathode

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Date / Rev.	2020.09.20/ A

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■ Absolute maximum ratings

(Ta=25°C)

Parameter	Symbol	Test Condition	Value		Unit
			Min	Max	
Reverse Voltage	VR	IR=30	5	—	V
Forward Current	IF	—	—	30	mA
Power Dissipation	Pd	—	—	100	mW
Pulse Current	Ipeak	Duty=0.1mS,1KHz	—	150	mA
Operating Temperature	Topr	—	-40	+85	°C
Storage Temperature	Tstr	—	-40	+85	°C

■ Electrical-Optical Characteristics

- Color Code & Chip Characteristics:(Test Condition:IF=10mA)

(Ta=25°C)

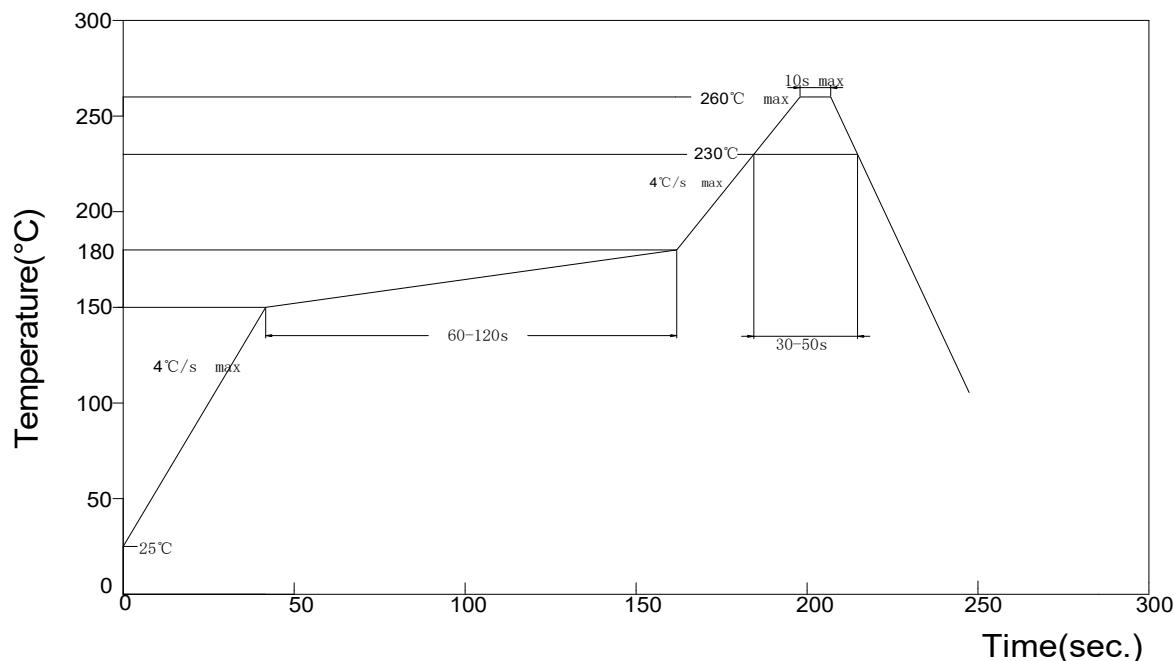
Emitting Color	Dice Material	Peak Wave Length(λp)	Dominant Wavelength(λd)	Spectral Line halfwidth (Δλ1/2)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd	
					Typ	Max		
Ultra brightness								
R	Red	AlGaN/P	660nm	645nm	20nm	2.00	2.50	20~50
SR	Orange	AlGaN/P	632nm	625nm	20nm	2.00	2.50	40~85
A	Amber	AlGaN/P	612nm	605nm	20nm	2.00	2.50	30~105
Y	Yellow	AlGaN/P	592nm	590nm	20nm	2.00	2.50	30~135
G	Yellow Green	AlGaN/P	572nm	570nm	30nm	2.00	2.50	20~60
PG	Pure Green	InGaN	*	520nm	36nm	3.00	3.80	350~450
B	Blue	InGaN/GaN	*	460nm	30nm	3.00	3.80	120~180
W	White	InGaN/GaN	X=0.29,Y=0.30	CCT:9500K	3.00	3.80	60~120~180	
Segment-to-Segment Luminous Intensity ratio(Iv-M) 1.5:1								

Note:

- Luminous Intensity is based on the Guangcai standards.

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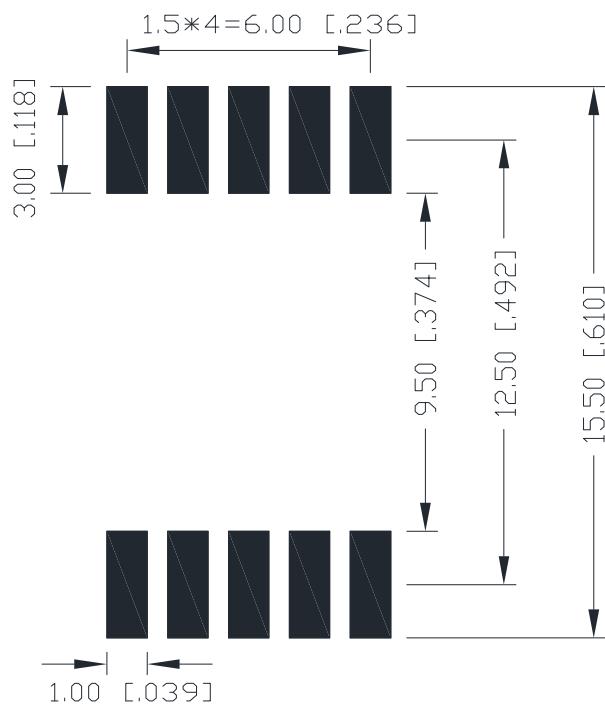
■ IR Reflow Temperature / Time :



NOTES:

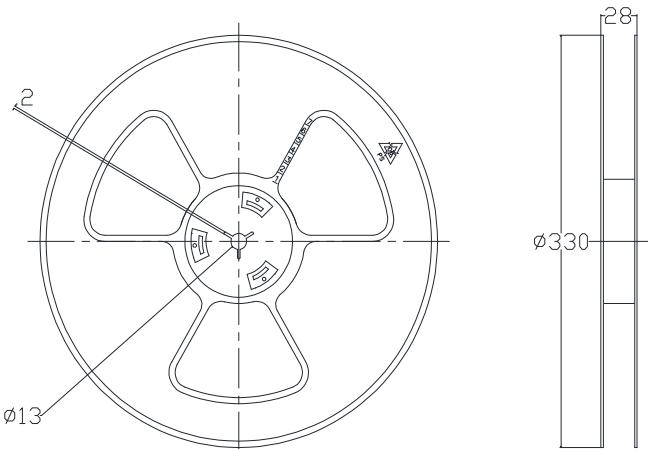
1. We recommend the reflow temperature 245°C (+/-5°C)。The maximum soldering temperature should be limited to 260°C。
2. Don't cause stress to the epoxy resin while it is exposed to high temperature。
3. Number of reflow process shall be 2 times or less.

■ Soldering Pad Size

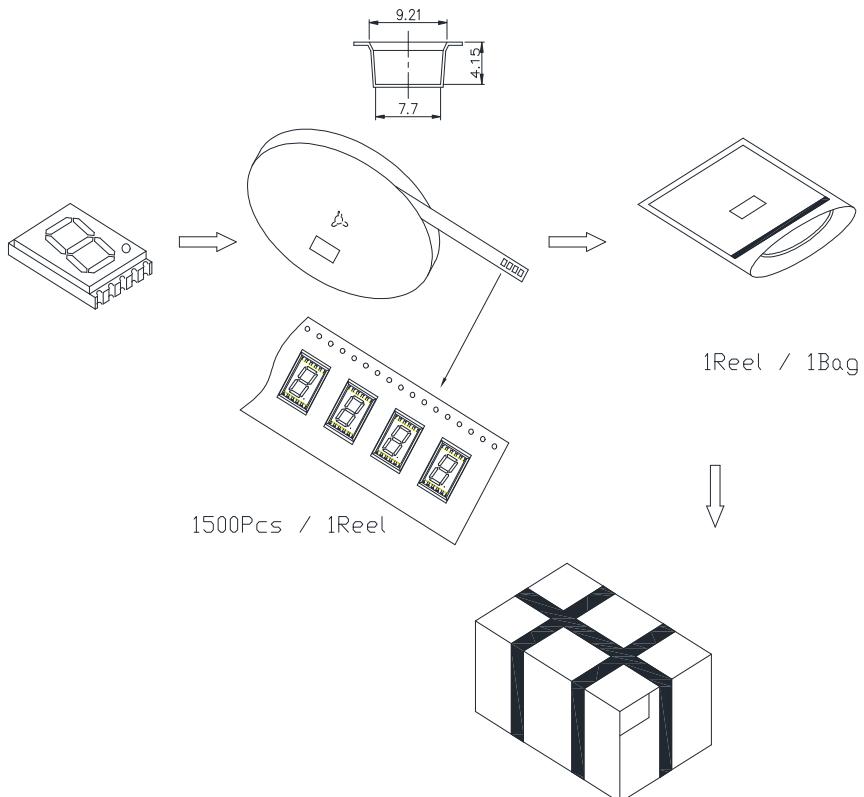
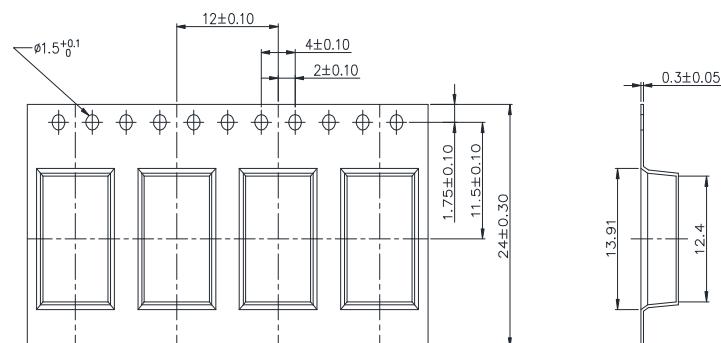


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■ Reel Dimensions



■ Packing & Label Specifications



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