Model No.	GS2040A/CX-X
Date / Rev.	2020.09.20/ A

PRODUCT SPECIFICATION

Model No.：GS2040A/CX-X

Descriptions & Features:
■0.20 Inch (5.08mm) digit height, Four 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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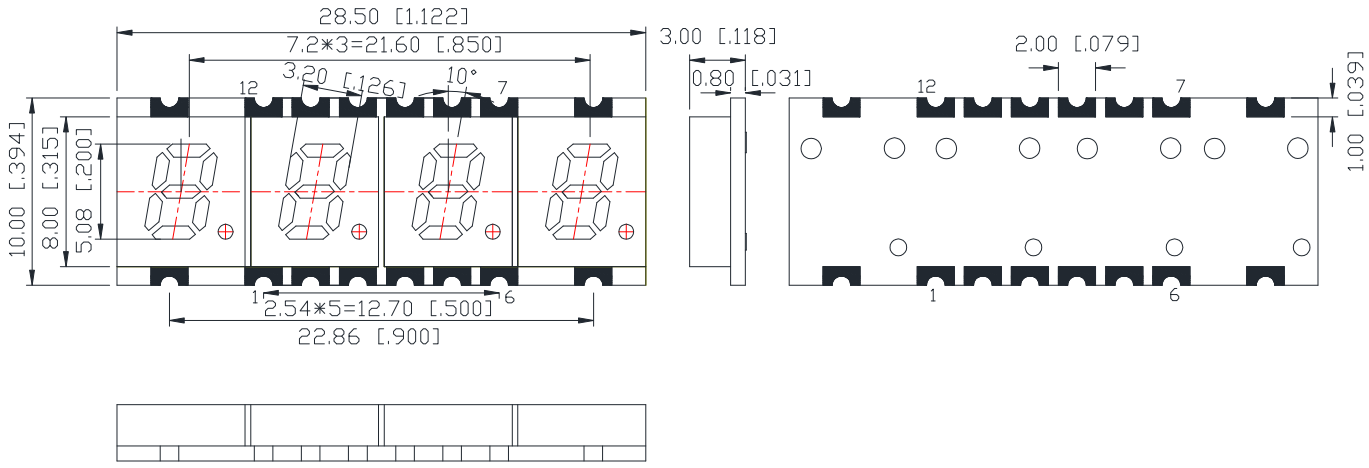
E-mail: Sales@smddisplay.com (General)

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■ -X: REF Surface

Color / Number	B	G
REF Surface Color	○ Black	○ Gray

■ Mechanical Dimensions

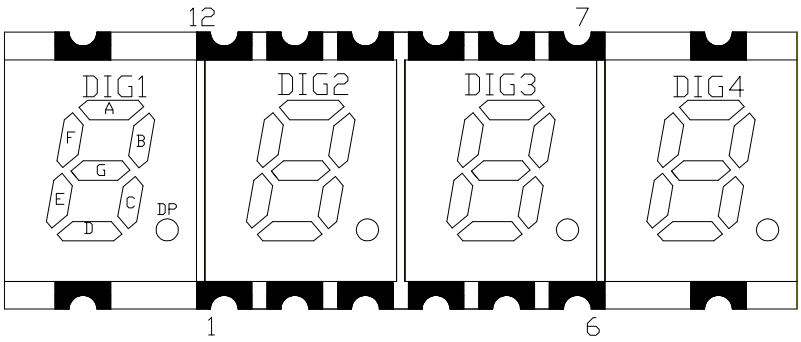


Notes:

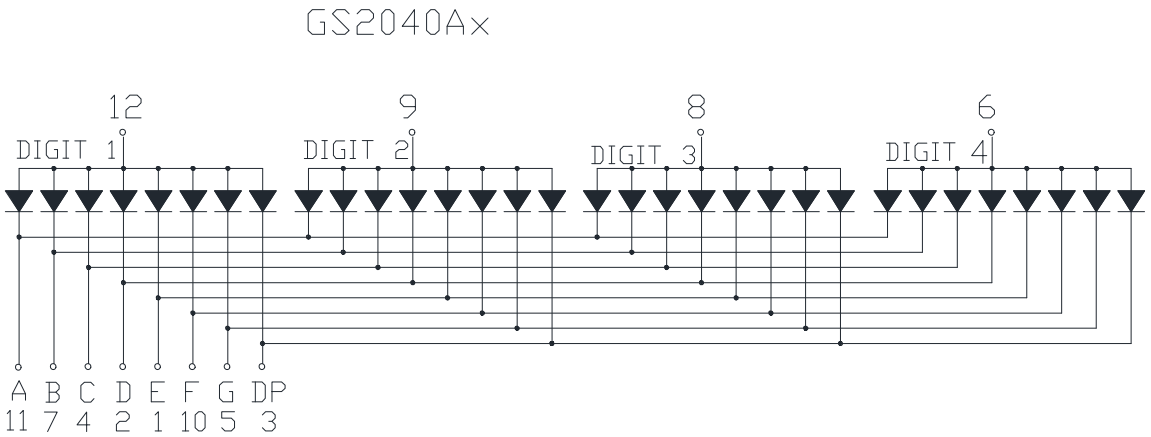
1. . All dimensions are in millimeters (inches)
2. Dimension in millimeter [inch], tolerance is ±0.25 [.010] and angle is ±1° unless otherwise noted.
3. Bending≤Length*1%.
4. The specifications,characteristics and technical data described in the datasheet are subject to change without prior notice.
5.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

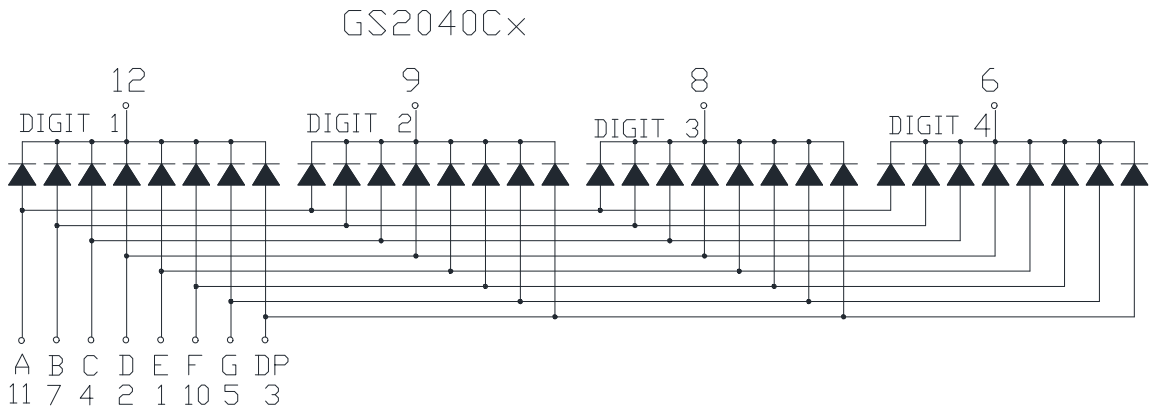
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■All Light On Segments Feature & Pad Position



■ Internal Circuit Diagrams





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■ Absolute maximum ratings

(Ta=25℃)

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	℃
Storage Temperature	Tstr	—	-40	+85	℃

■ Electrical-Optical Characteristics

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

(Ta=25℃)

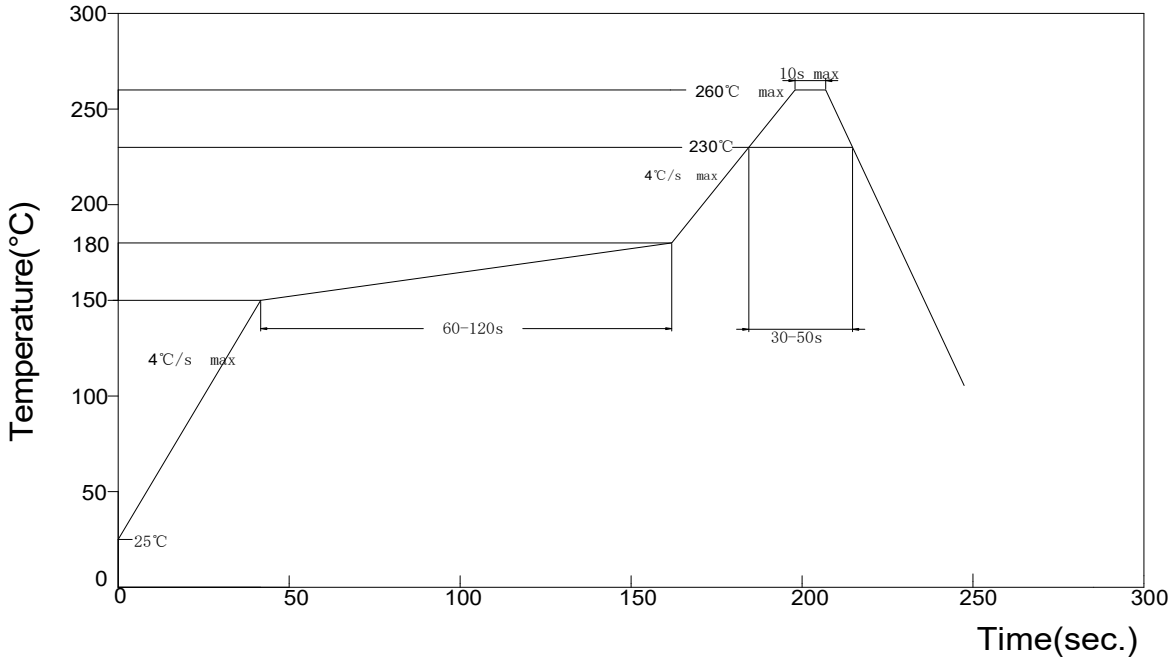
Emitting Color		Dice Material	Peak Wave Length(λ_P)	Dominant Wavelength(λd)	Spectral Line halfwidth ($\Delta\lambda 1/2$)	Forward Voltage(VF) Unit:V		Luminous Intensity (Iv) Unit:mcd
						Typ	Max	
Ultra brightness								
R	Red	AlGaInP	660nm	645nm	20nm	2.00	2.50	20~50
SR	Orange	AlGaInP	632nm	625nm	20nm	2.00	2.50	40~85
A	Amber	AlGaInP	612nm	605nm	20nm	2.00	2.50	30~105
Y	Yellow	AlGaInP	592nm	590nm	20nm	2.00	2.50	30~135
G	Yellow Green	AlGaInP	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:

1.Luminous Intensity is based on the Guangcai standards.

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■ IR Reflow Temperature / Time :



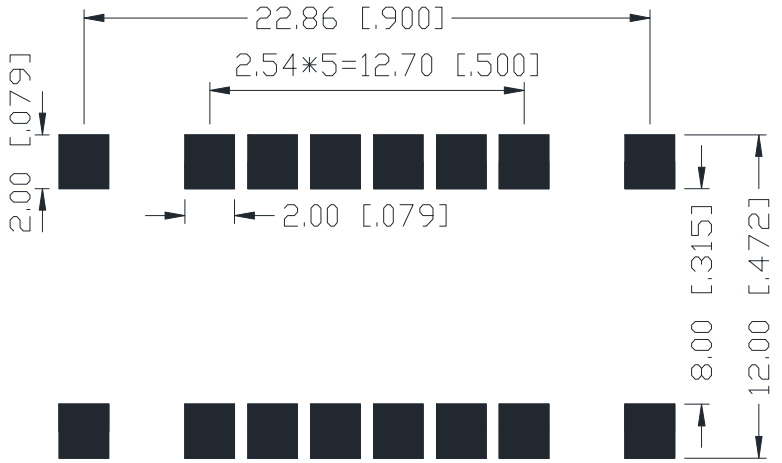
NOTES:

1.We recommend the reflow femperature 245℃（+/-5℃）。The maximun soldering temperature should be limited to 260℃。

2.Don't cause stress to the epoxy resin while it is exposed to high temperature。

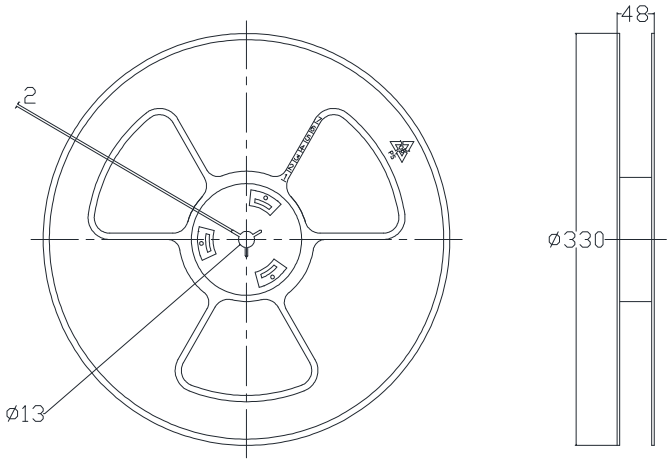
3.Number of reflow process shall be 2 times or less.

■ Soldering Pad Size

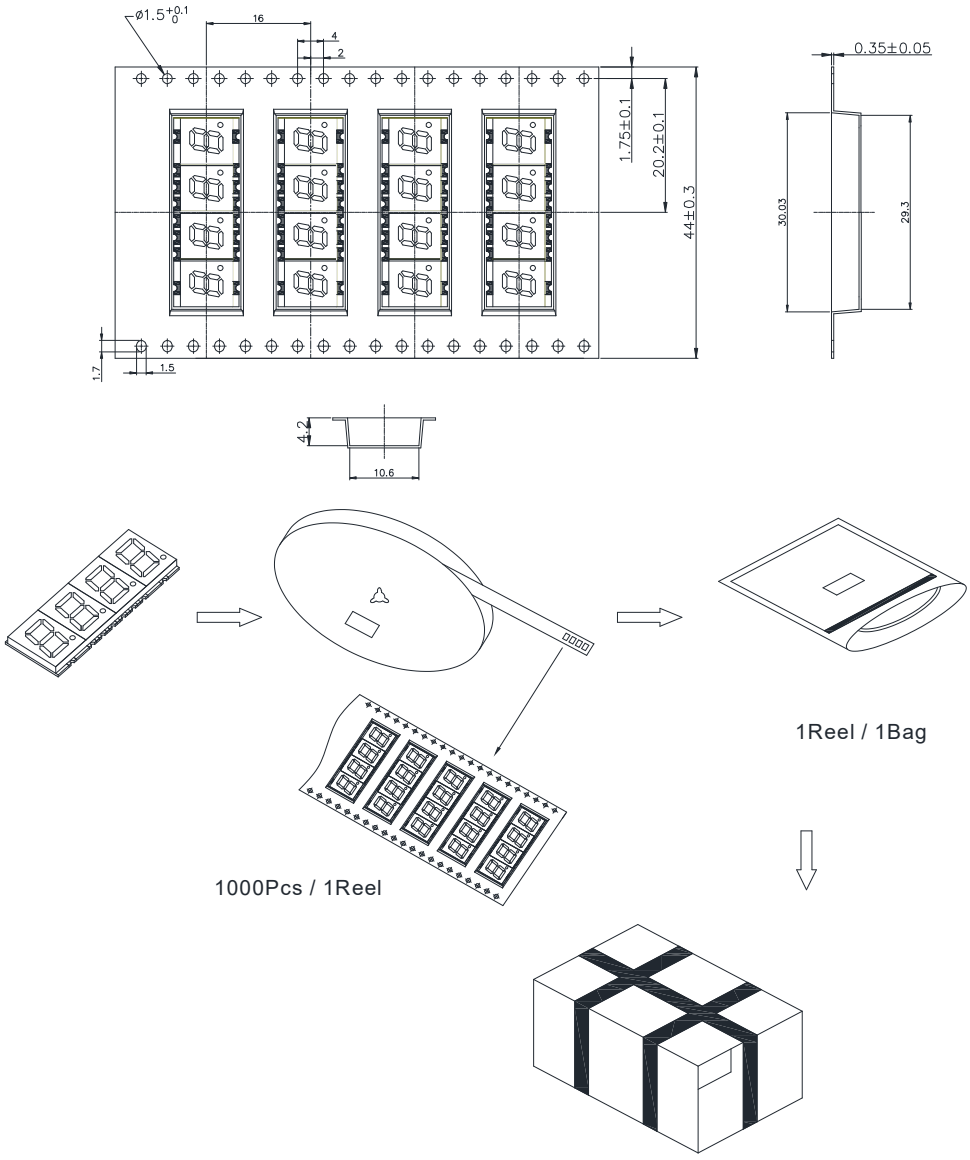


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■ Reel Dimensions



■ Packing & Labe Specifications



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