



PRODUCT SPECIFICATION

Model No:CST-S30320B7/S30321B7

Descriptions:

- 0.3 Inch Triad Digit SMD Display
- Emitting Color : Super Bright Blue



CUSTOMER APPROVED	APPROVED BY	CHECKED BY	PREPARED BY
SIGNATURES			

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Model No : CST-S30320/S30321B7

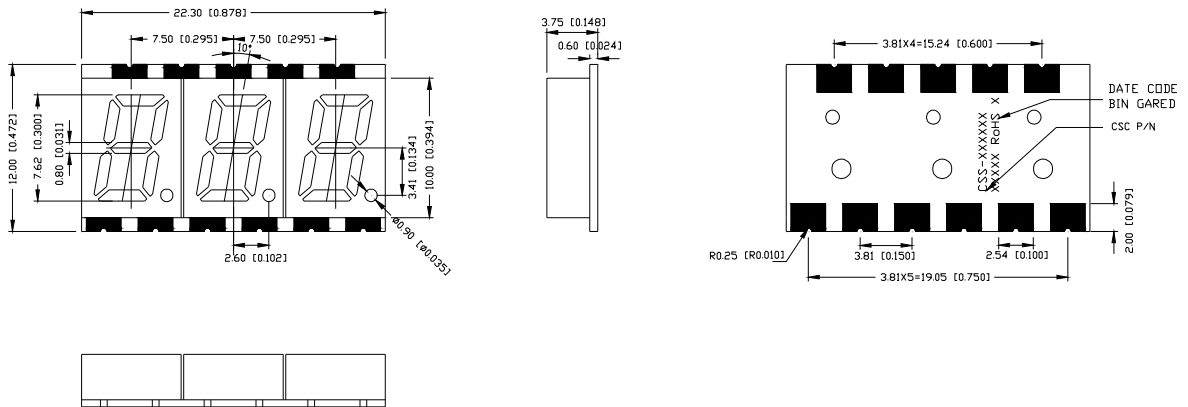
Features -

1. 0.3 inch (7.62mm) 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		Description
	Material	Emitting Color	
CST-S30320B7	InGaN	Super Bright Blue	Common Anode
CST-S30321B7	InGaN	Super Bright Blue	Common Cathode

Mechanical Dimensions -

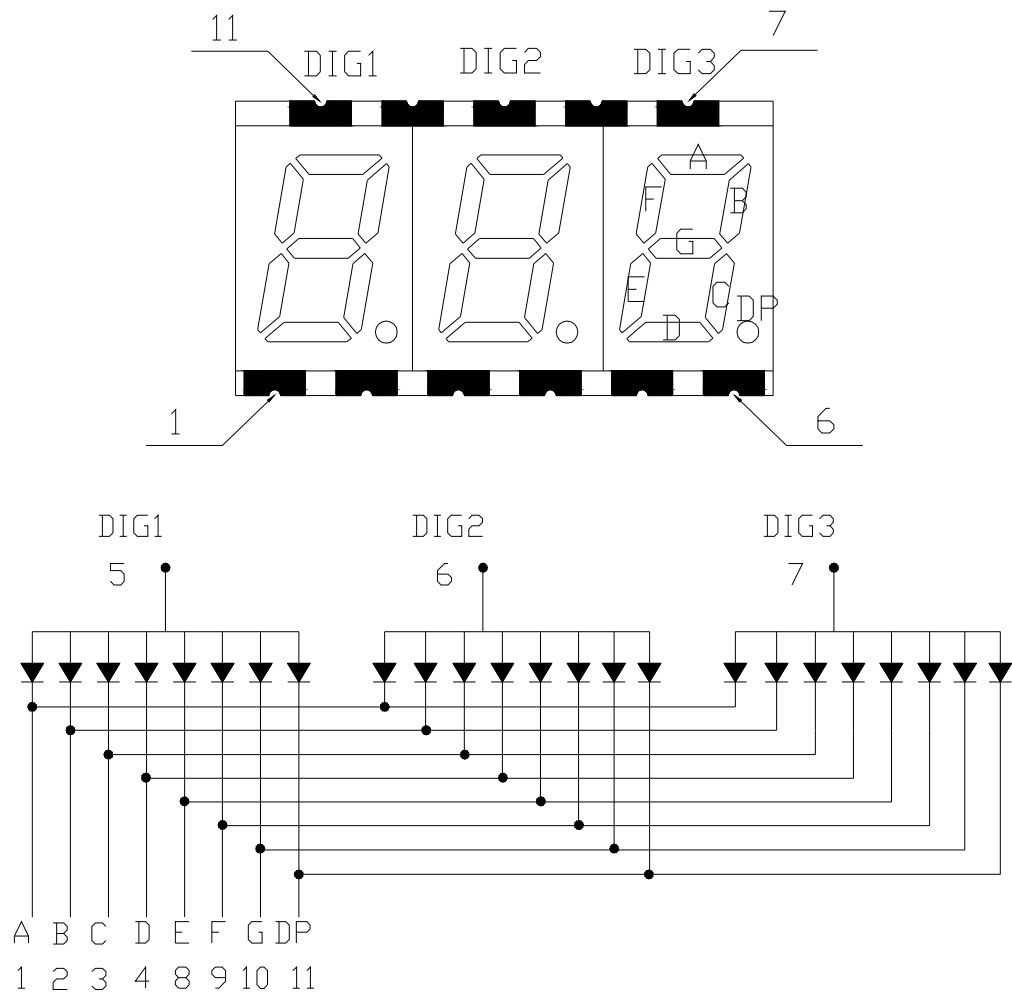


Notes:
All dimensions are in millimeters [inches],
and tolerance is ± 0.25 [0.010]
unless otherwise noted.



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Internal Circuit Diagrams -



CST-S30320 Common Anode
(CST-S30321 Common Cathode)



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■ **Absolute Maximum Rating -**

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P_{AD}	120	mW
Continuous Forward Current Per Dice	I_{AF}	30	mA
Peak Current Per Dice(duty cycle 1/10,1KHz)	I_{PF}	100	mA
Derating Linear From 25°C Per Dice	-	0.4	mA/°C
Reverse Voltage Per Dice	V_R	5	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	-	3.5	4.0	V	I _F =20mA
Luminous Intensity Per Segment	I_v	3.5	9	-	mcd	I _F =10mA
Peak Emission Wavelength	λ_P	-	470	-	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	-	30	-	nm	I _F =20mA
Reverse Current	I_R	-	-	50	μA	V _R =5V
Luminous Intensity Matching Ratio	I_{V-m}	-	-	2:1	-	I _F =10mA



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Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

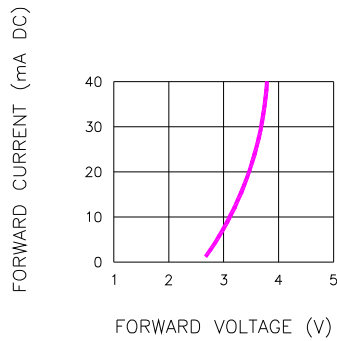


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

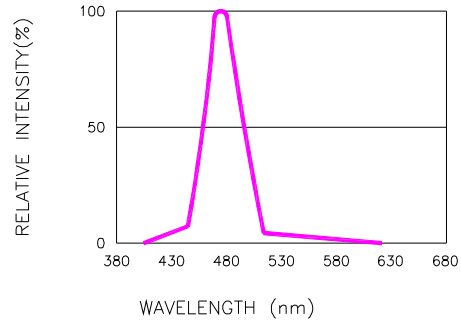


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

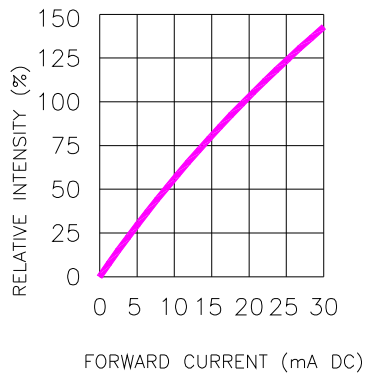


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

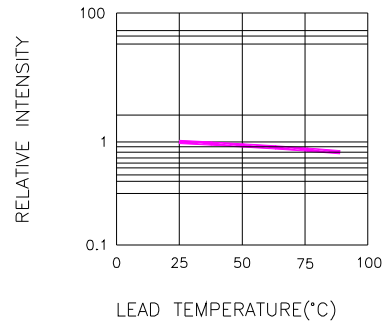


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us PULSE, 10ms PERIOD)

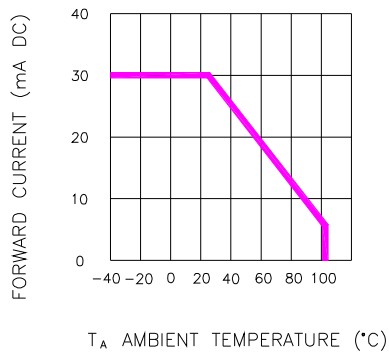


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

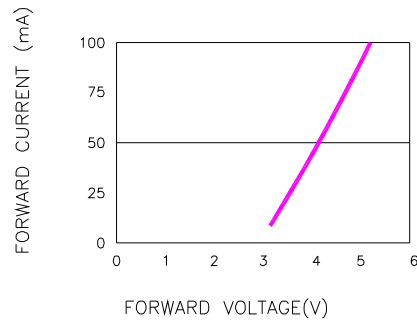


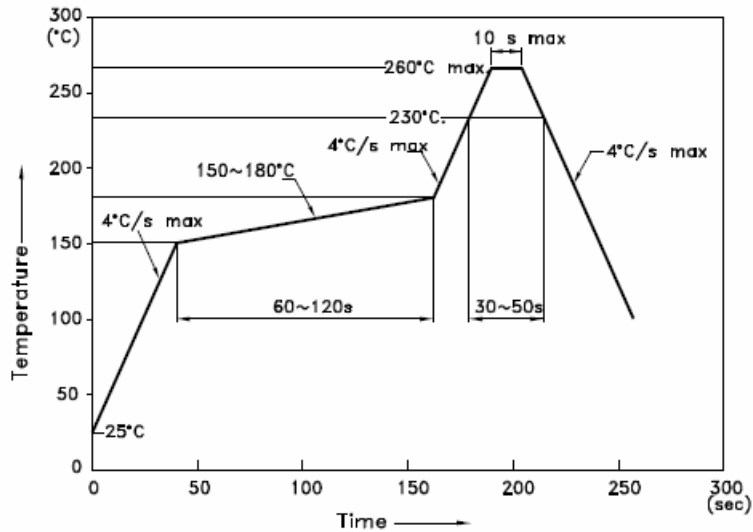
Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD (100us TEST PULSE, 1% DUTY CYCLE)



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SMT REFLOW SOLDERING INSTRUCTIONS

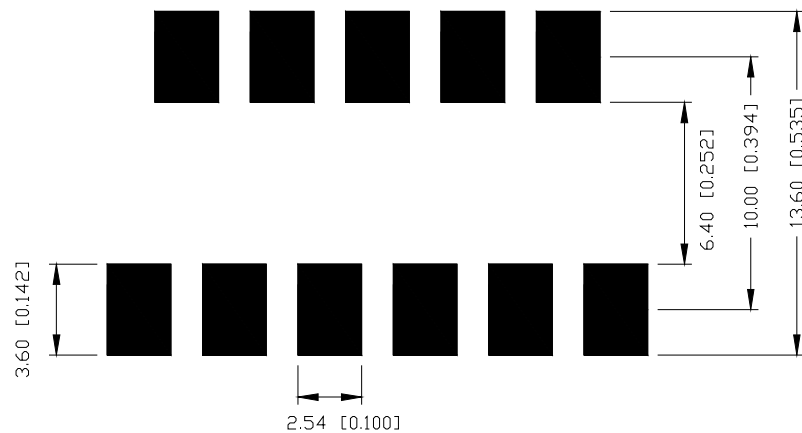
IR Reflow Temperature / Time :



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.

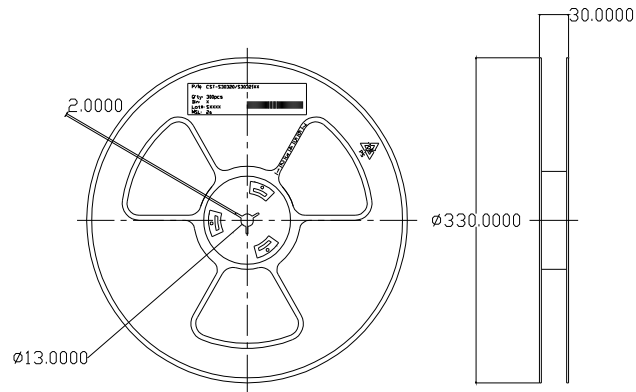
Soldering Pad Size



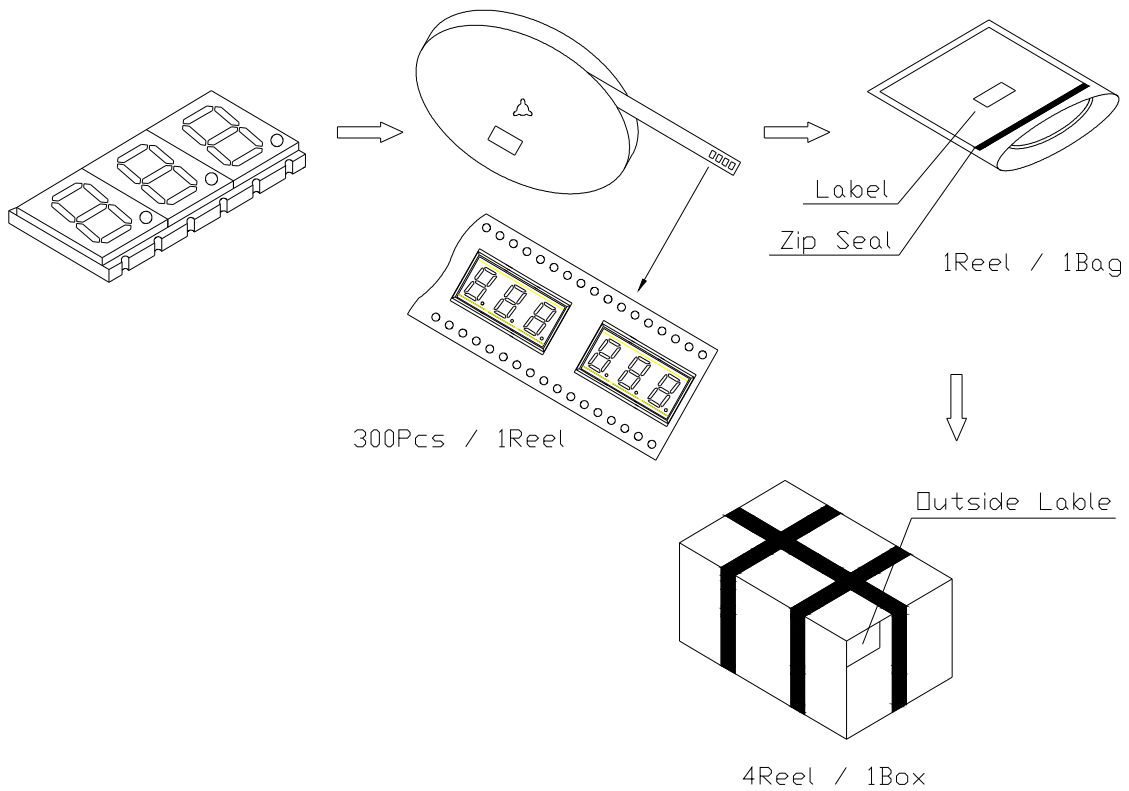


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REEL DIMENSIONS



PACKING & LABEL SPECIFICATIONS



4Reel / 1Box

Size: 440X340X270 mm

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