



# PRODUCT SPECIFICATION

**Model No : CST-532B7/533B7**

## Descriptions:

- 0.56 Inch Triad Digit Display
- CST-532: Common Anode
- CST-533: Common Cathode
- Emitting Color: Super Bright Blue



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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<b>Spec. No.</b>	PS-ND-08090111
<b>Rev.</b>	A

**Model No : CST-532/533B7**

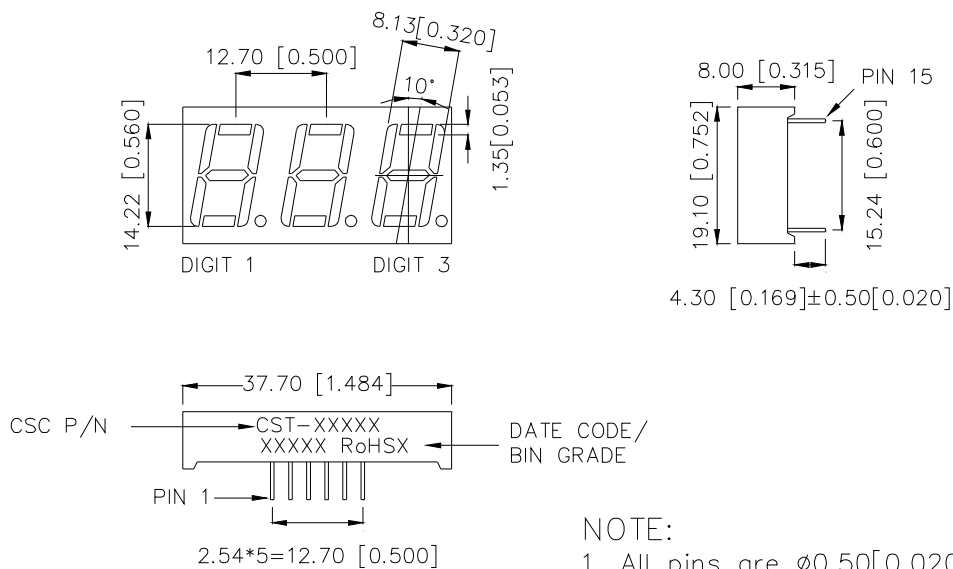
**Features -**

1. 0.56 inch (14.2mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. ESD > 1KV(HBM)
6. Easy mounting on P.C. board or socket.

**Device Selection Guide -**

Part No.	Chip		Description
	Material	Emitted Color	
<b>CST-532B7</b>	<b>InGaN</b>	<b>Super Bright Blue</b>	<b>Common Anode</b>
<b>CST-533B7</b>	<b>InGaN</b>	<b>Super Bright Blue</b>	<b>Common Cathode</b>

**Package Dimensions -**



**NOTE:**

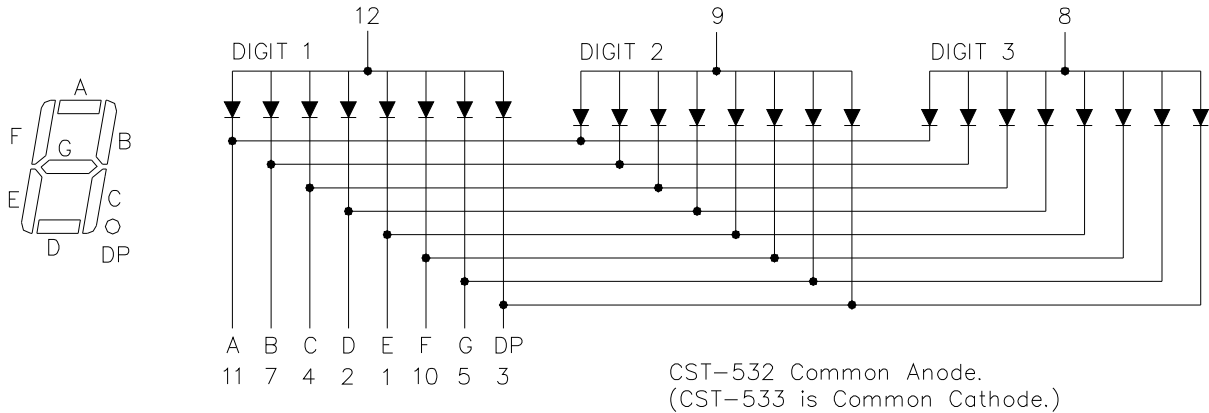
1. All pins are  $\phi 0.50 [0.020]$ .
2. Dimension in millimeters [inch], tolerance is  $\pm 0.25 [0.010]$  unless otherwise noted.



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**Internal Circuit Diagrams -**



**Absolute Maximum Rating -**

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	<b>PAD</b>	120	mW
Continuous Forward Current Per Dice	<b>IAF</b>	30	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	<b>IPF</b>	100	mA
Derating Linear From 25°C Per Dice	-	0.4	mA/°C
Reverse Voltage Per Dice	<b>VR</b>	5	V
Operating Temp.	<b>Topr</b>	-35 ~ +85	°C
Storage Temp.	<b>Tstg</b>	-35 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			



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■ **Electro-optical Characteristics -**

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	$V_F$	-	3.5	4	V	$I_F=20mA$
Luminous Intensity Per Segment	$I_v$	-	20	-	mcd	$I_F=10mA$
Peak Emission Wavelength	$\lambda_p$	-	468	-	nm	$I_F=20mA$
Dominant Wavelength	$\lambda_d$	-	470	-	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	30	-	nm	$I_F=20mA$
Reverse Current	$I_R$	-	-	100	$\mu A$	$V_R=5V$
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)**

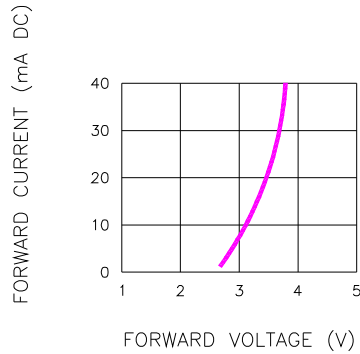


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

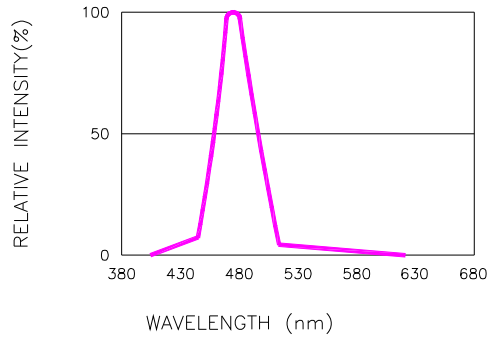


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

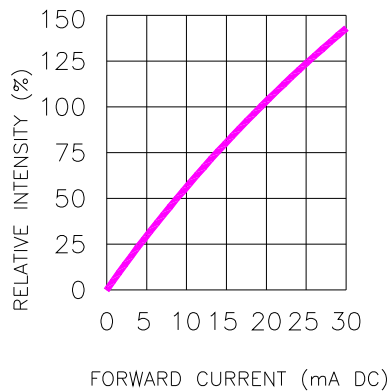


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

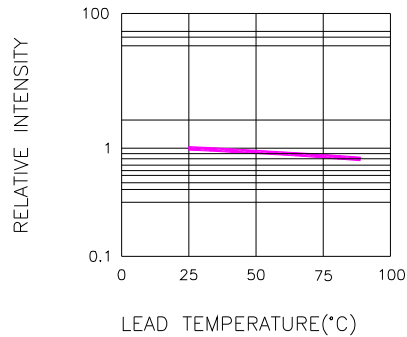


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE  
(PULSED 20 mA; 300us PULSE, 10ms PERIOD)

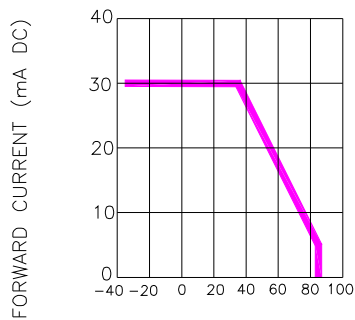


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

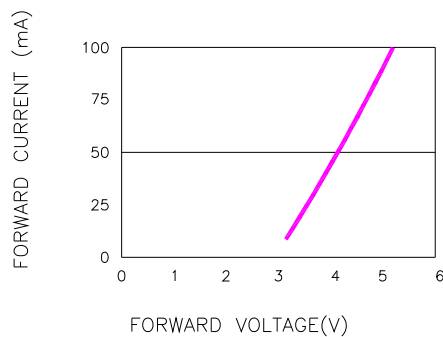


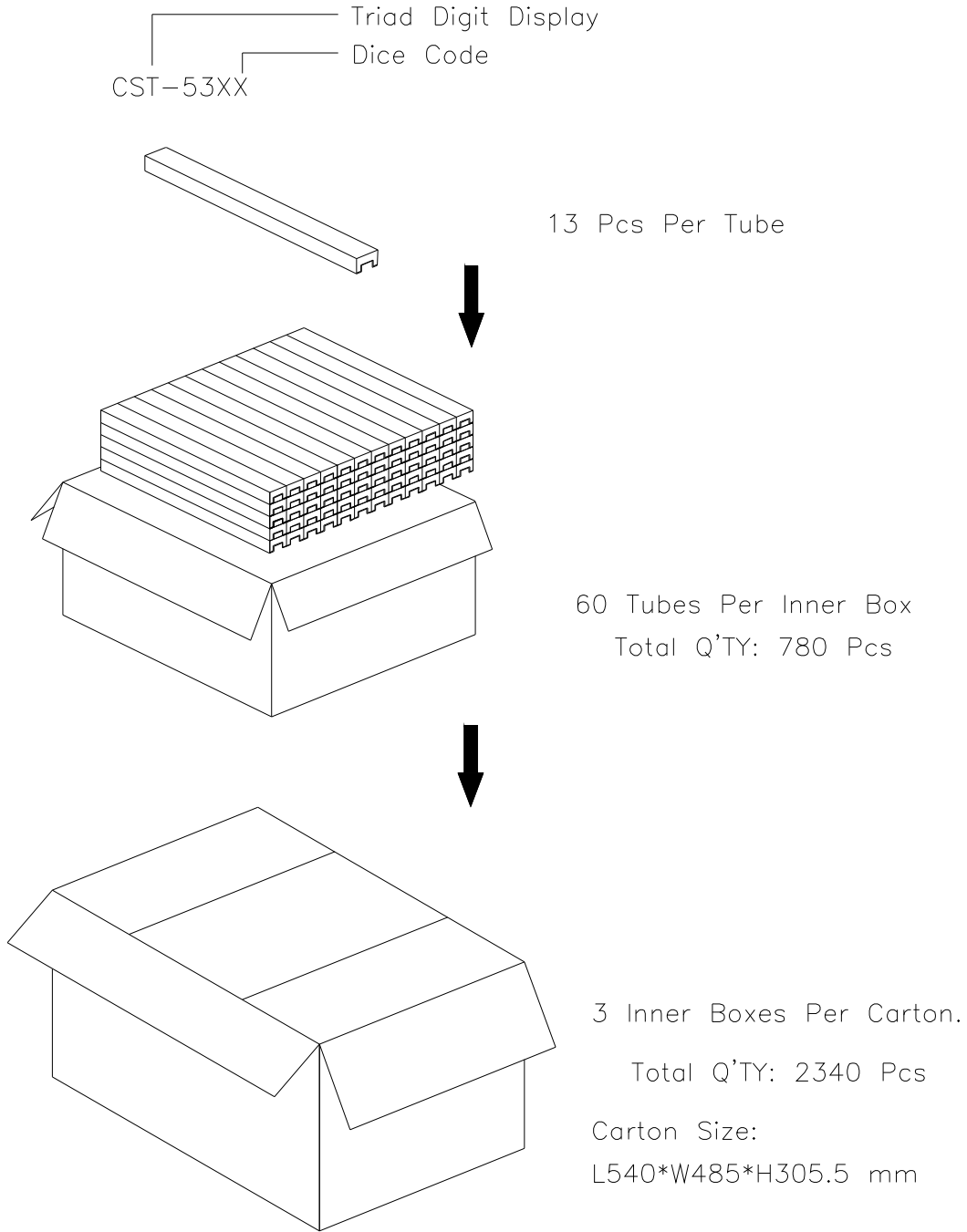
Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD VOLTAGE  
(100us TEST PULSE, 1% DUTY CYCLE)



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■ Package Dimensions



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