

PRODUCT SPECIFICATION

Model No : CST-4302B7/4301B7

Descriptions:

- 0.4 Inch Triad Digits Display
- CST-4302: Common Anode
- CST-4301: Common Cathode
- Emitting Color: Super Bright Blue



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

CHINA SEMICONDUCTOR CORPORATION

Address:2FL. NO.909,Chung-Cheng Road,
Chung-Ho City Taipei Hsien,Taiwan.

Tel:886-2-2223-9696

Fax:886-2-2223-9377

OPTO PLUS TECHNOLOGIES CO.,LTD

Address:696 Shun jiang Rd.,Ji Shan St.Shaoxing,
ZheJiang,China

Tel:86-0575-8623888

Fax:86-0575-8623112

<http://www.csctw.com.tw>

Model No : CST-4302/4301B7

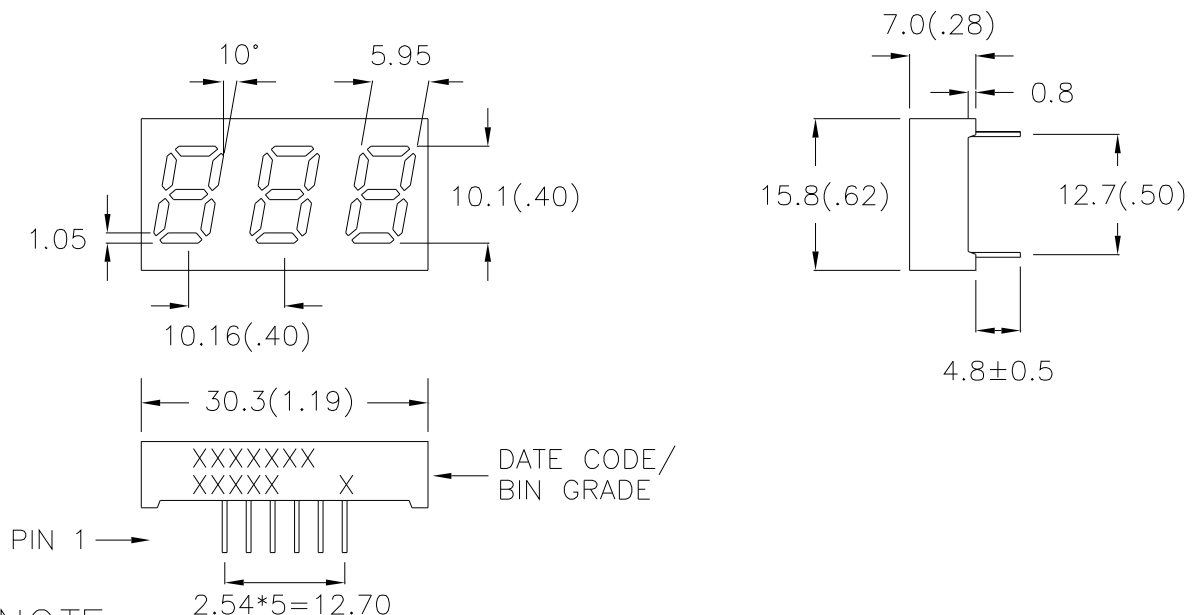
Features -

1. 0.4 inch (10.1mm) 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	
CST-4302B7	InGaN	Super Bright Blue	Common Anode
CST-4301B7	InGaN	Super Bright Blue	Common Cathode

Package Dimensions -

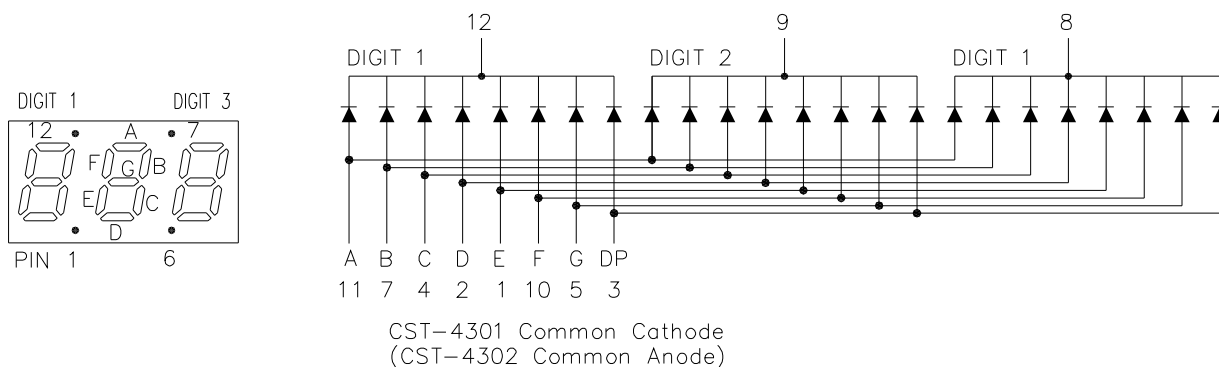


NOTE:

1. All pins are $\phi 0.5(.02)$.
2. Dimension in millimeter (inch), and tolerance is ± 0.25 (.01) unless otherwise noted.

Model No : CST-4302/4301B7

Internal Circuit Diagrams -



Absolute Maximum Rating -

(Ta=25°C)

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

Model No : CST-4302/4301B7

■ **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	-	15	-	mcd	I _F =10mA
Peak Emission Wavelength	λ _p	-	468	-	nm	I _F =20mA
Dominant Wavelength	λ _d	-	470	-	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	-	20	-	nm	I _F =20mA
Reverse Current	I _R	-	-	50	μA	V _R =5V
Luminous Intensity Matching Ratio	IV-m	-	-	2:1	-	I _F =10mA

Model No : CST-4302/4301B7

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

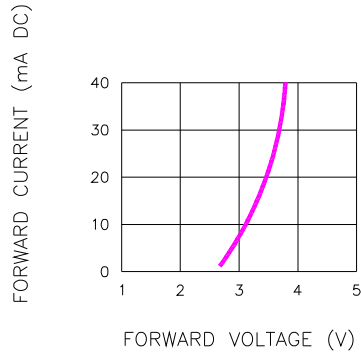


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

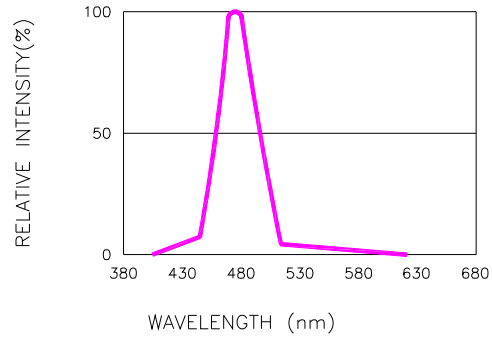


Fig.2 RELATIVE INTENSITY VS. WAVELENGTH

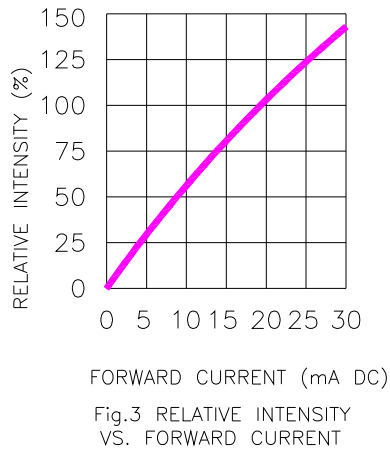


Fig.3 RELATIVE INTENSITY VS. FORWARD CURRENT

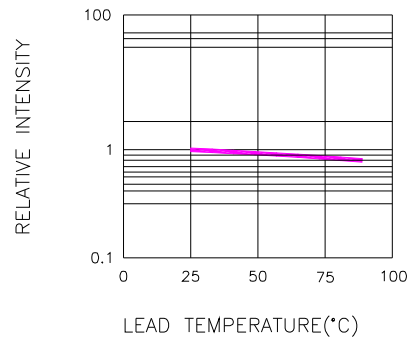


Fig.4 RELATIVE INTENSITY VS. LEAD TEMPERATURE
(PULSED 20 mA; 300us
PULSE, 10ms PERIOD)

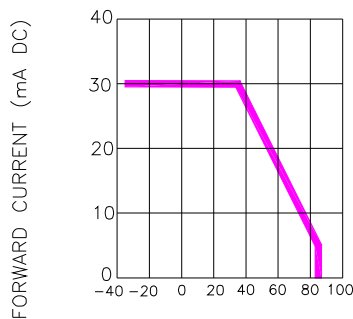


Fig.5 FORWARD CURRENT VS. AMBIENT TEMPERATURE

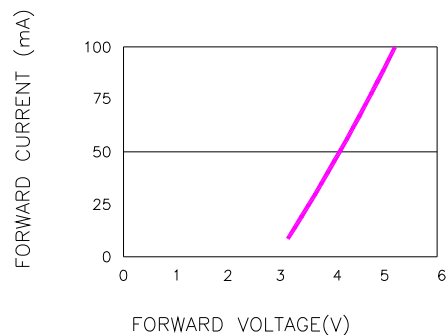
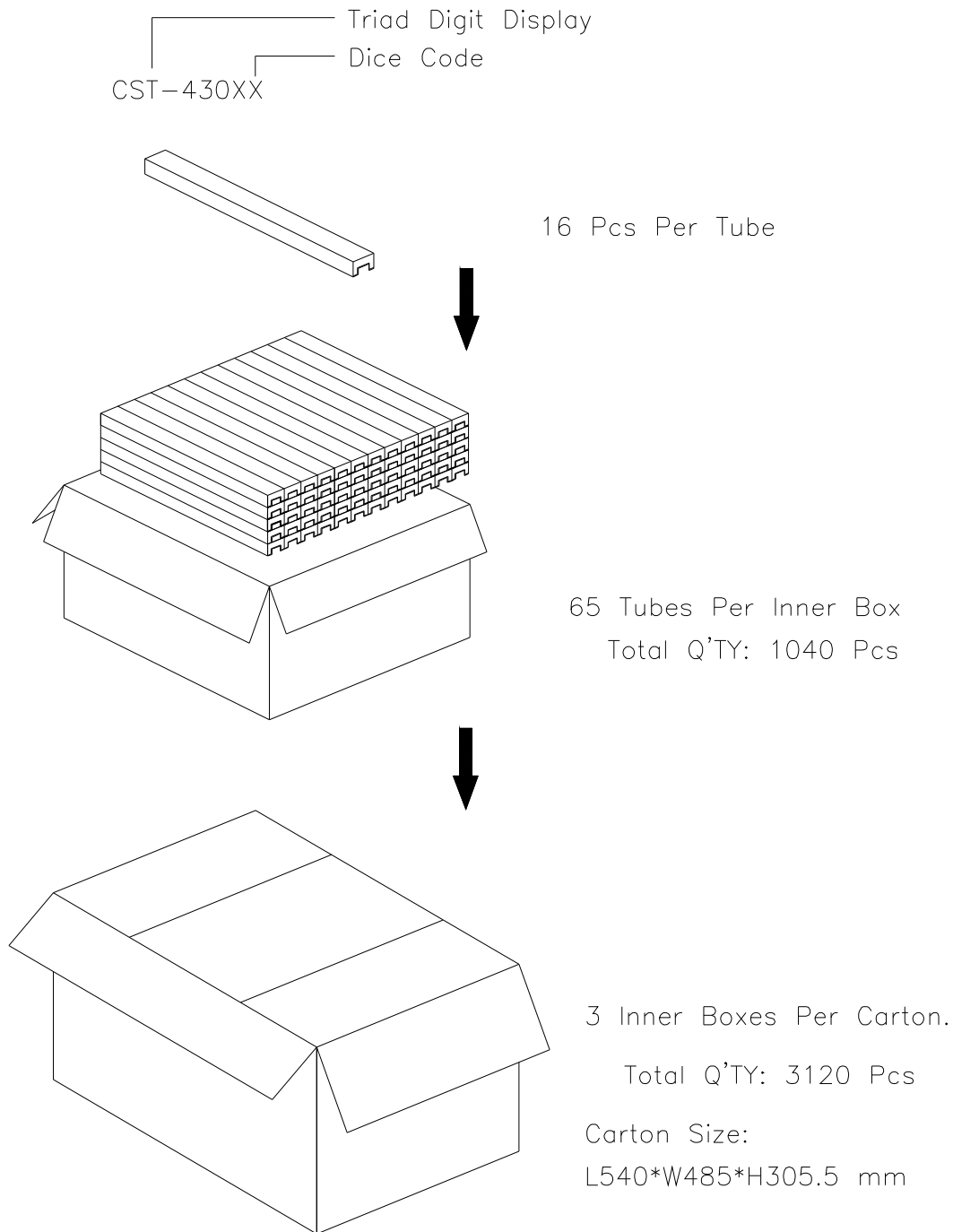


Fig.6 PEAK FORWARD VOLTAGE VS. FORWARD(100us TEST PULSE, 1% DUTY CYCLE)

Model No : CST-4302/4301B7

■ Package Dimensions



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