



PRODUCT SPECIFICATION

Model No : CST-5234T9/5235T9

Descriptions:

- 0.52 Inch Triad Digit Display
- CST-5234: Common Anode
- CST-5235: Common Cathode
- Emitting Color: Super Bright Yellow



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: 86-0575-88623888

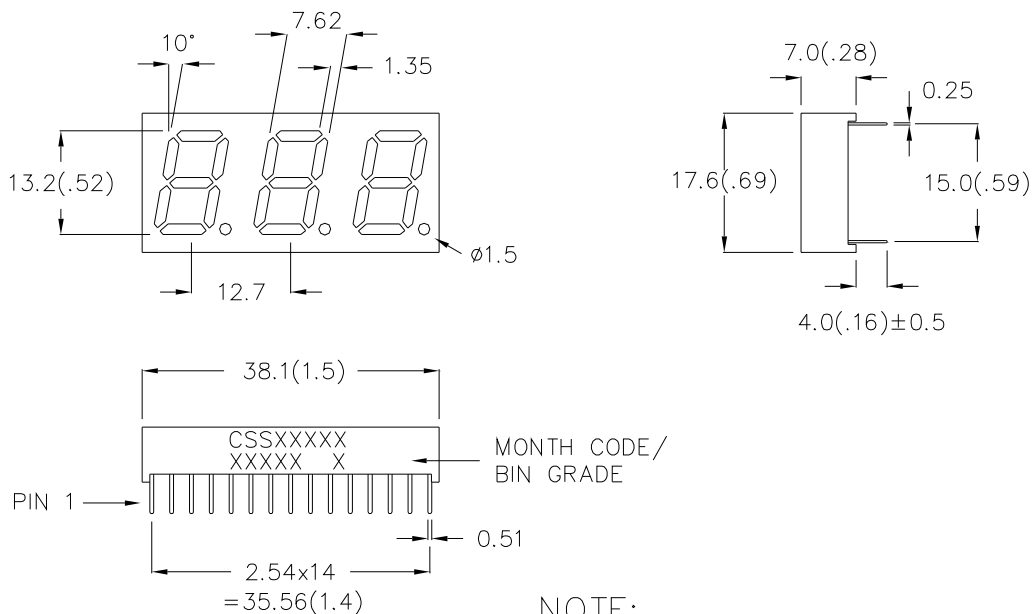
Fax: 86-0575-88623112


Model No : CST-5234/5235T9
Features -

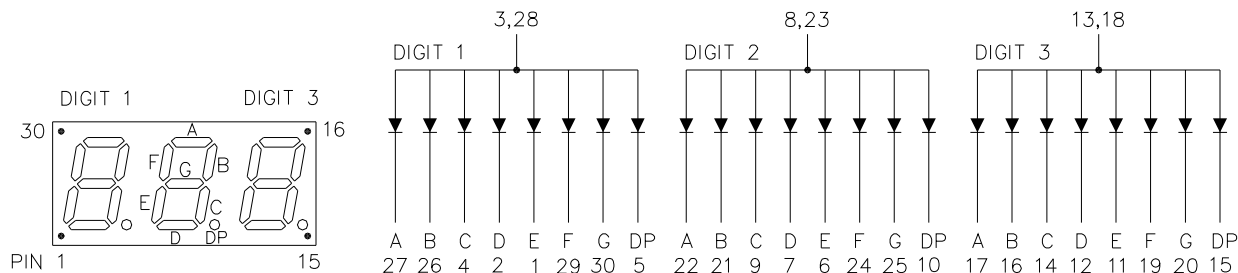
1. 0.52 inch (13.2mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

Device Selection Guide -

Part No.	Chip		Description
	Material	Emitted Color	
CST-5234T9	AlGaInP	Super Bright Yellow	Common Anode
CST-5235T9	AlGaInP	Super Bright Yellow	Common Cathode

Package Dimensions -

NOTE:

2. Dimension in millimeter (inch), and tolerance is ± 0.25 (.01) unless otherwise noted.


Model No : CST-5234/5235T9
Internal Circuit Diagrams -


CST-5234 Common Anode. (CST-5235 is Common Cathode.)

Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P_{AD}	70	mW
Continuous Forward Current Per Dice	I_{AF}	25	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I_{PF}	90	mA
Derating Linear From 25°C Per Dice	-	0.33	mA/°C
Reverse Voltage Per Dice	V_R	5	V
Operating Temp.	T_{opr}	-35 ~ +85	°C
Storage Temp.	T_{stg}	-35 ~ +85	°C
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			


Model No : CST-5234/5235T9
■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	2.1	2.8	V	$I_F=20\text{mA}$
Luminous Intensity Per Segment	I_v	-	20	-	mcd	$I_F=10\text{mA}$
Peak Emission Wavelength	λ_p	-	592	-	nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	-	590	-	nm	$I_F=20\text{mA}$
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	20	-	nm	$I_F=20\text{mA}$
Reverse Current	I_R	-	-	100	μA	$V_R=5\text{V}$
Luminous Intensity Matching Ratio	$IV-m$	-	-	2:1	-	$I_F=10\text{mA}$



Model No : CST-5234/5235T9

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

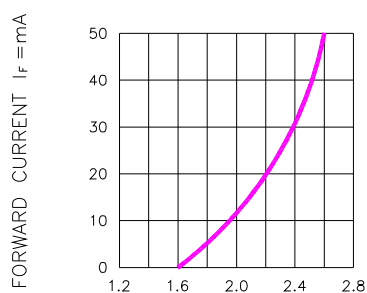


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

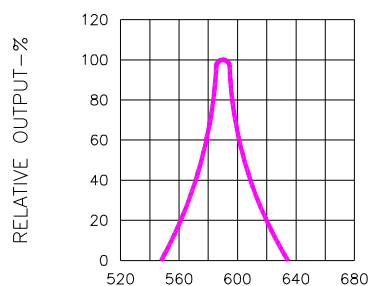


Fig.2 SPECTRAL RESPONSE

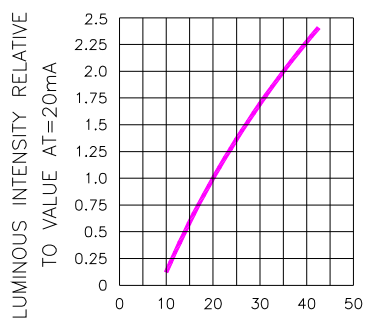


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

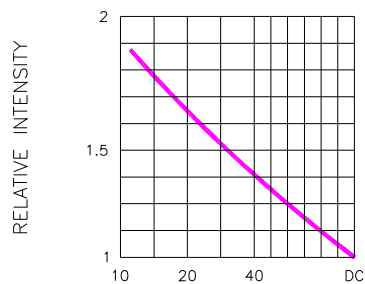


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

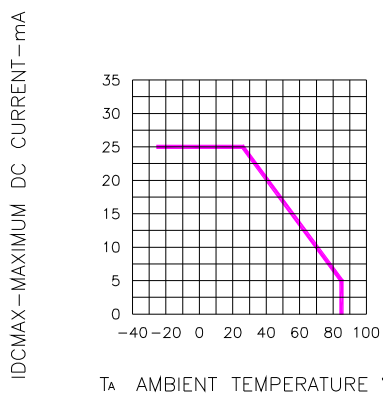


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

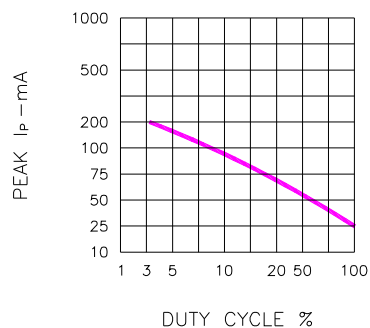
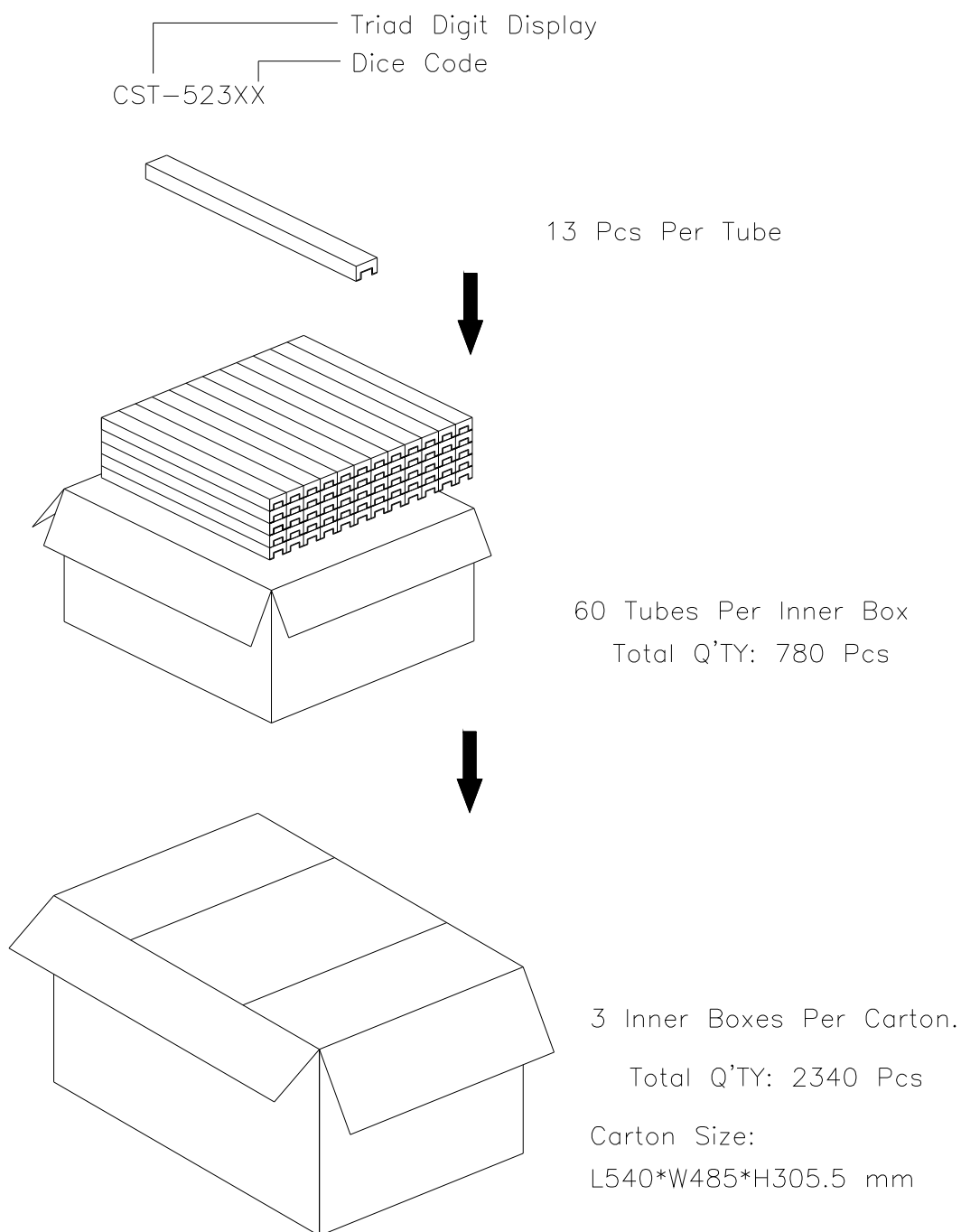


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



Spec. No.	PS-ND-08090106
Rev.	A

Model No : CST-5234/5235T9**■ Package Dimensions**

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