



Spec. No.	PS-ND-08090124
Rev.	A

PRODUCT SPECIFICATION

Model No : CST-534S/535S

Descriptions:
<ul style="list-style-type: none"> • 0.56 Inch Triad Digit Display • CST-534: Common Anode • CST-535: Common Cathode • Emitting Color: Super Bright Red



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



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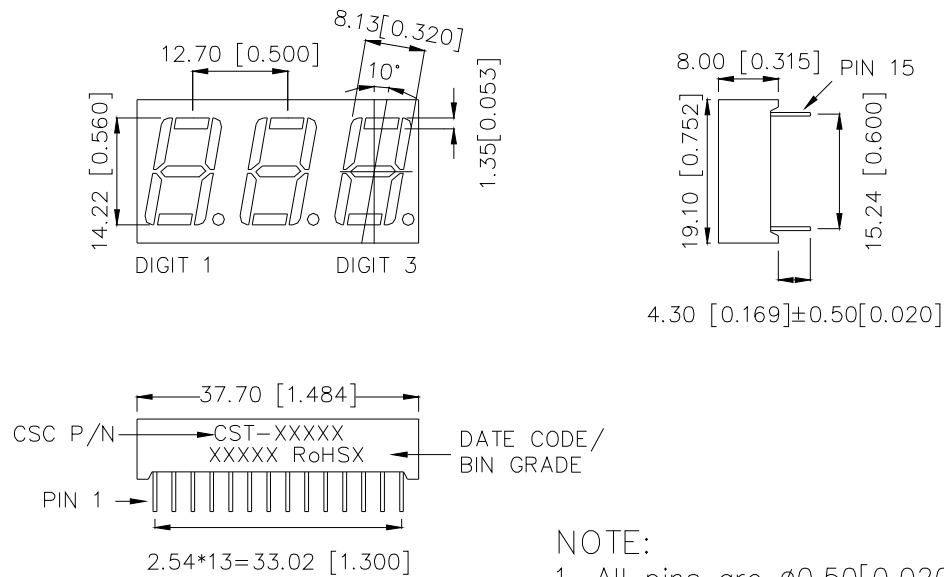
Features -

1. 0.56 inch (14.2mm) 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 -

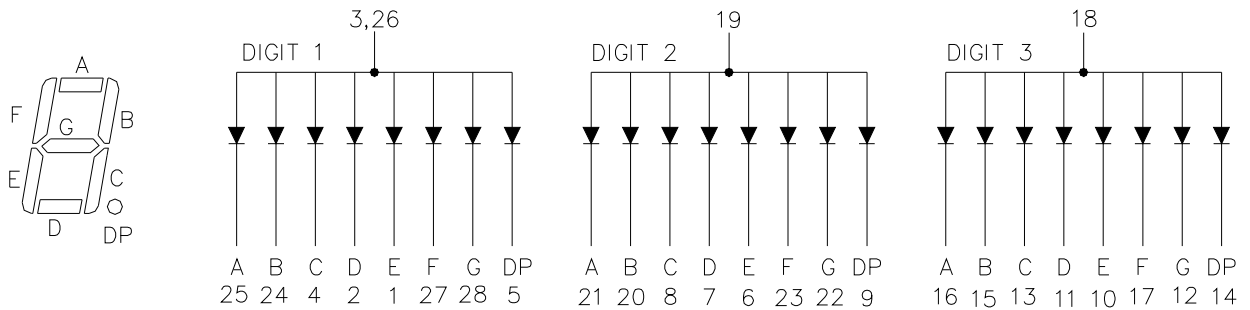
Part No.	Chip		Description
	Material	Emitted Color	
CST-534S	AlGaAs	Super Bright Red	Common Anode
CST-535S	AlGaAs	Super Bright Red	Common Cathode

Package Dimensions -



NOTE:

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


Model No : CST-534/535S
Internal Circuit Diagrams -


CST-534 Common Anode.
(CST-535 is Common Cathode.)

Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	P_{AD}	75	mW
Continuous Forward Current Per Dice	I_{AF}	30	mA
Peak Current Per Dice(duty cycle 1/10, 1kHz)	I_{PF}	120	mA
Derating Linear From 25°C Per Dice	-	0.42	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			



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■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	1.8	2.5	V	$I_F=20\text{mA}$
Luminous Intensity Per Segment	I_v	-	6	-	mcd	$I_F=10\text{mA}$
Peak Emission Wavelength	λ_p	-	660	-	nm	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	-	644	-	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	$I_V\text{-m}$	-	-	2:1	-	$I_F=10\text{mA}$



Model No : CST-534/535S

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

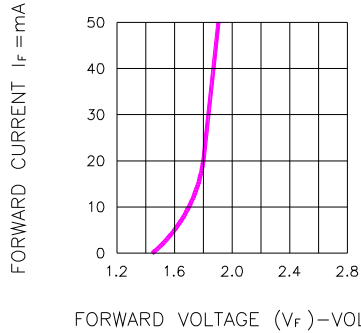


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

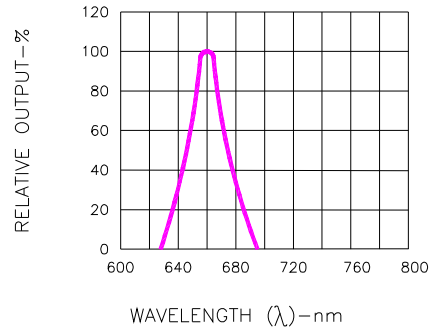


Fig.2 SPECTRAL RESPONSE

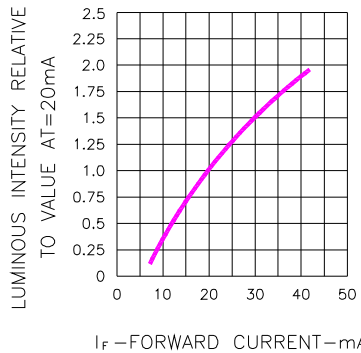


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

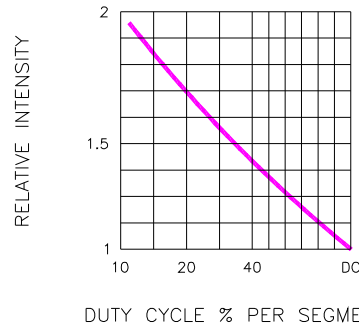


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

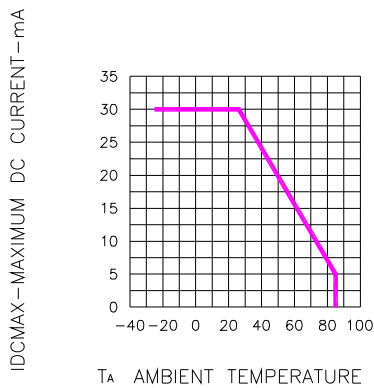


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

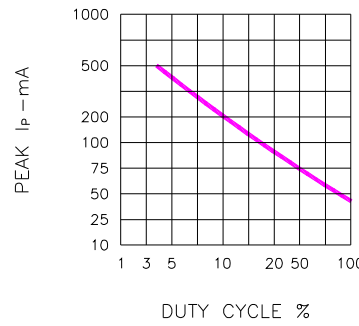


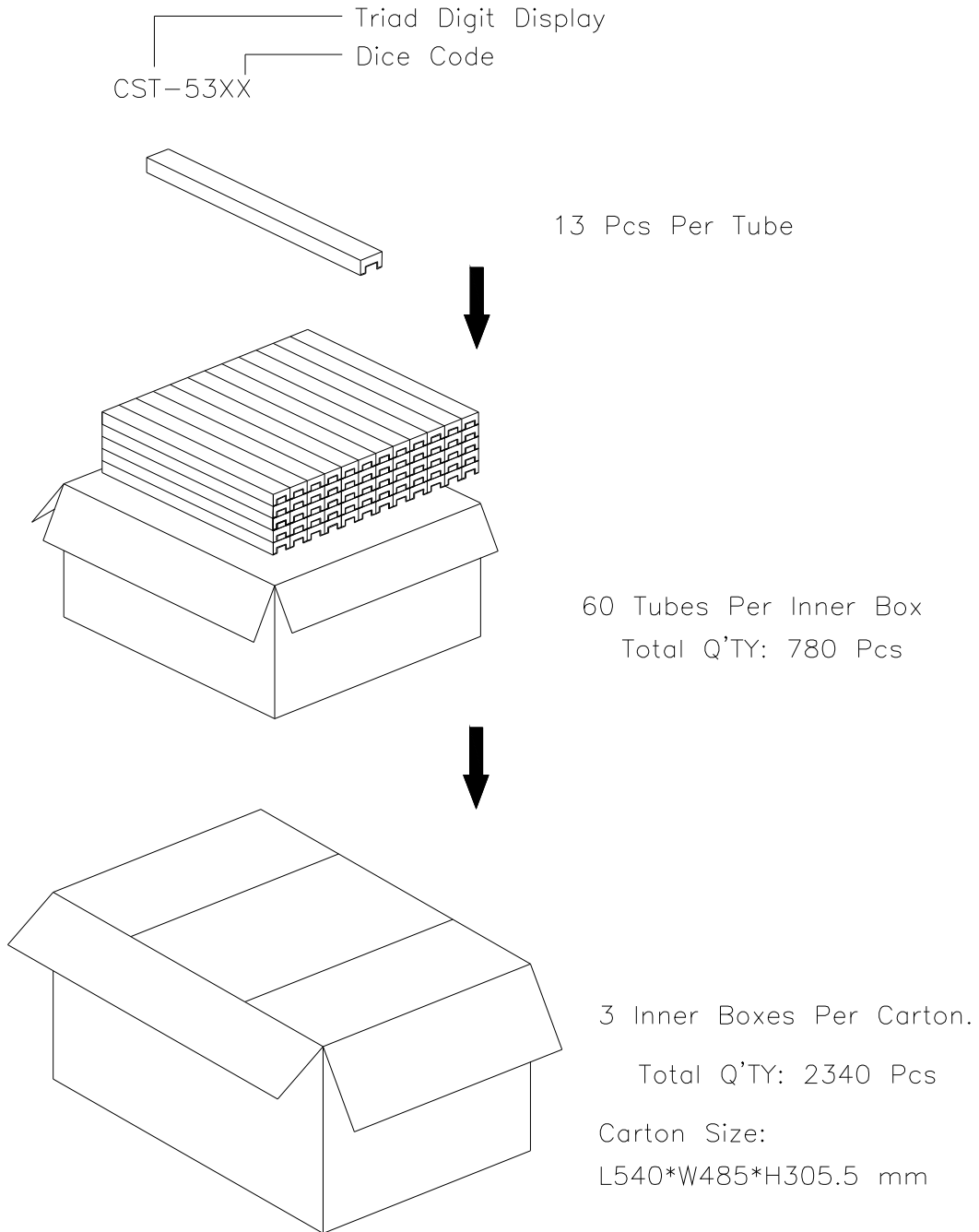
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)



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■ Package Dimensions



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