CHINA
SEMICONDUCTOR
CORPORATION

Spec. No.	PS-ND-08090121
Rev.	A

PRODUCT SPECIFICATION

Model No：CST-534E/535E

Descriptions:

- 0.56 Inch Triad Digit Display
- CST-534: Common Anode
- CST-535: Common Cathode
- Emitting Color：Orange

CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Model No：CST-534/535E

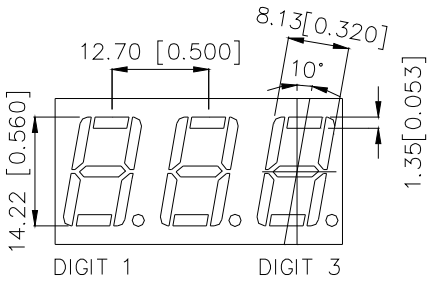
■ Features -

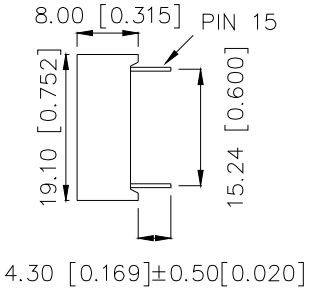
1. 0.56 inch (14.2mm) digit height.
2. Case mold type.
3. RoHS compliant.
4. Low power consumption.
5. Easy mounting on P.C. board or socket.

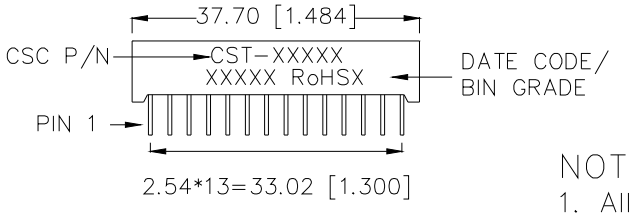
■ Device Selection Guide -

Part No.	Chip		Description
	Material	Emitted Color	
CST-534E	GaAsP	Orange	Common Anode
CST-535E	GaAsP	Orange	Common Cathode

■ Package Dimensions -







NOTE:
1. All pins are ø0.50[0.020].
2. Dimension in millimeter [inch], tolerance is ±0.25 [0.010] unless otherwise noted.

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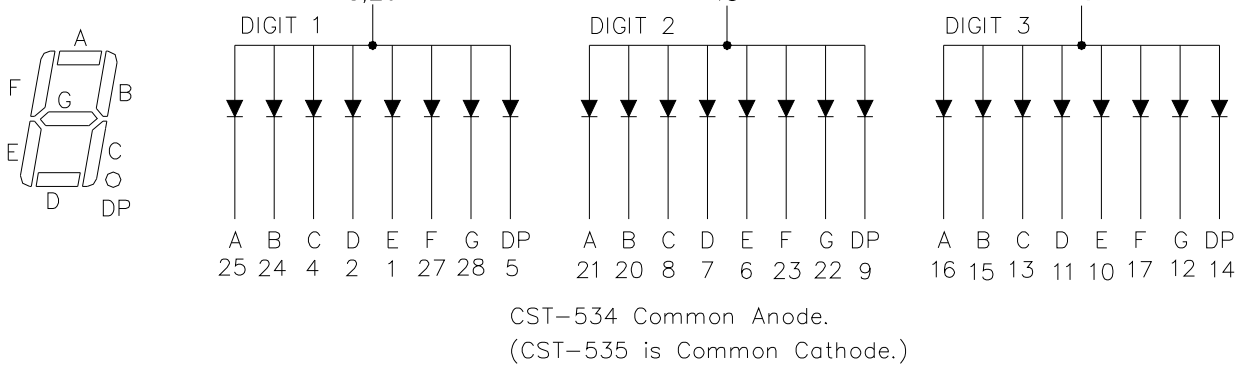
■ Internal Circuit Diagrams -



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

■ Absolute Maximum Rating -

(Ta=25℃)

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℃ Per Dice	-	0.33	mA/℃
Reverse Voltage Per Dice	V_R	5	V
Operating Temp.	Topr	-35 ~ +85	℃
Storage Temp.	Tstg	-35 ~ +85	℃
Solder temperature 1/16 inch below seating plane for 3 seconds at 260℃			

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■ Electro-optical Characteristics -

(Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage Per Segment	V_F	-	2.0	2.8	V	I_F=20mA
Luminous Intensity Per Segment	Iv	-	4	-	mcd	I_F=10mA
Peak Emission Wavelength	λp	-	632	-	nm	I_F=20mA
Dominant Wavelength	λd	-	624	-	nm	I_F=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	-	35	-	nm	I_F=20mA
Reverse Current	IR	-	-	100	μA	V_R=5V
Luminous Intensity Matching Ratio	IV-m	-	-	2:1	-	I_F=10mA

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■ Typical Electrical / Optical Charateristics Curves -

(Ta = 25℃ Unless Otherwise Noted)

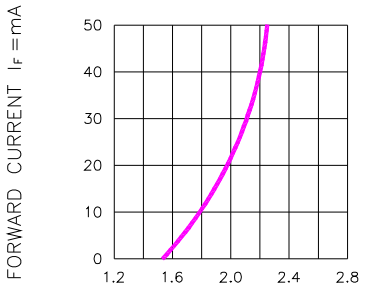

Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

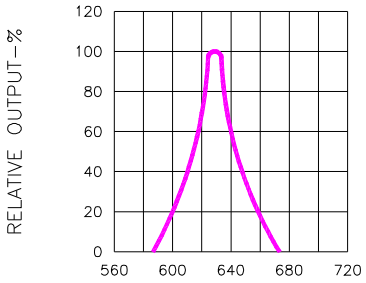

Fig.2 SPECTRAL RESPONSE

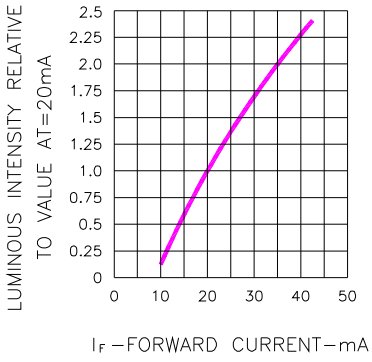

Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

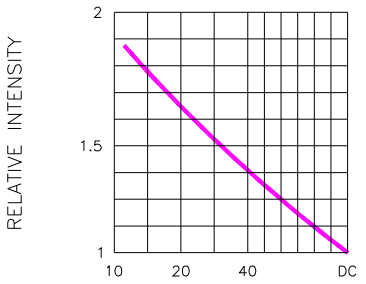

Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

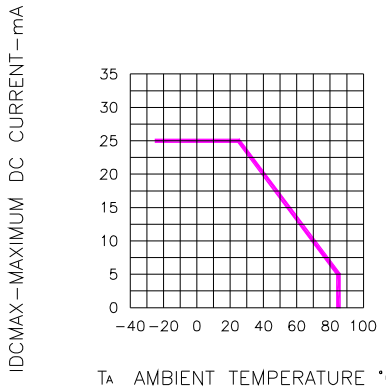

Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

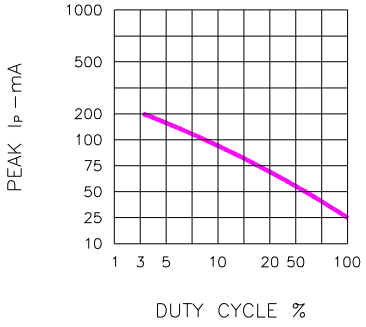

Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)

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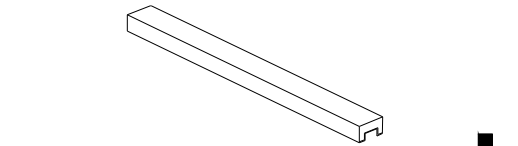
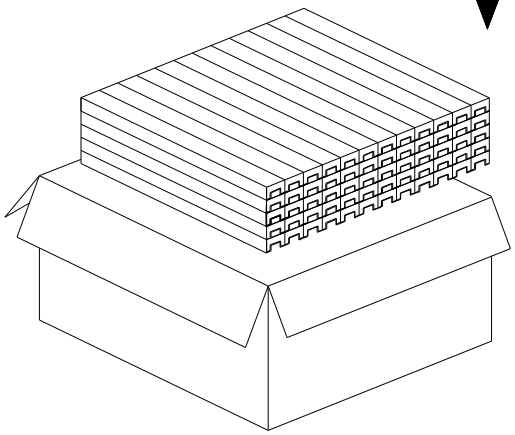
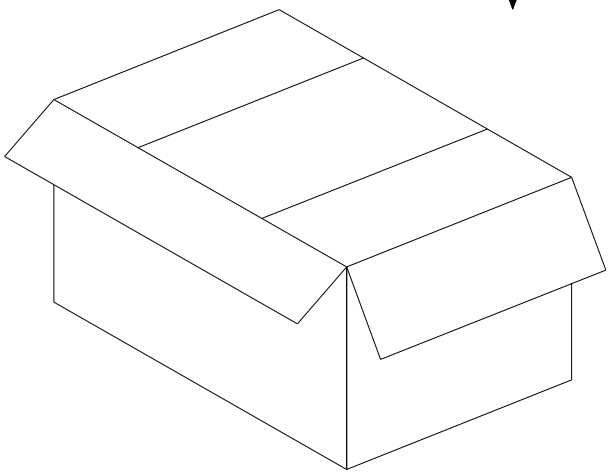
■ Package Dimensions



13 Pcs Per Tube



60 Tubes Per Inner Box
Total Q'TY: 780 Pcs



3 Inner Boxes Per Carton.

Total Q'TY: 2340 Pcs

Carton Size:
L540*W485*H305.5 mm

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