

PRODUCT SPECIFICATION

Model No : CSD-322G/323G

Descriptions:
<ul style="list-style-type: none"> • 0.3 Inch Dual Digits Display • CSD-322: Common Anode • CSD-323: Common Cathode • Emitting Color: Yellow Green



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.

OPTO PLUS TECHNOLOGIES CO.,LTD
 Address: 696 Shun jiang Rd., Ji Shan St. Shaoxing,
 ZheJiang, China

Tel: 886-2-2223-9696
 Fax: 886-2-2223-9377

Tel: 86-0575-8623888
 Fax: 86-0575-8623112



Model No : CSD-322/323G

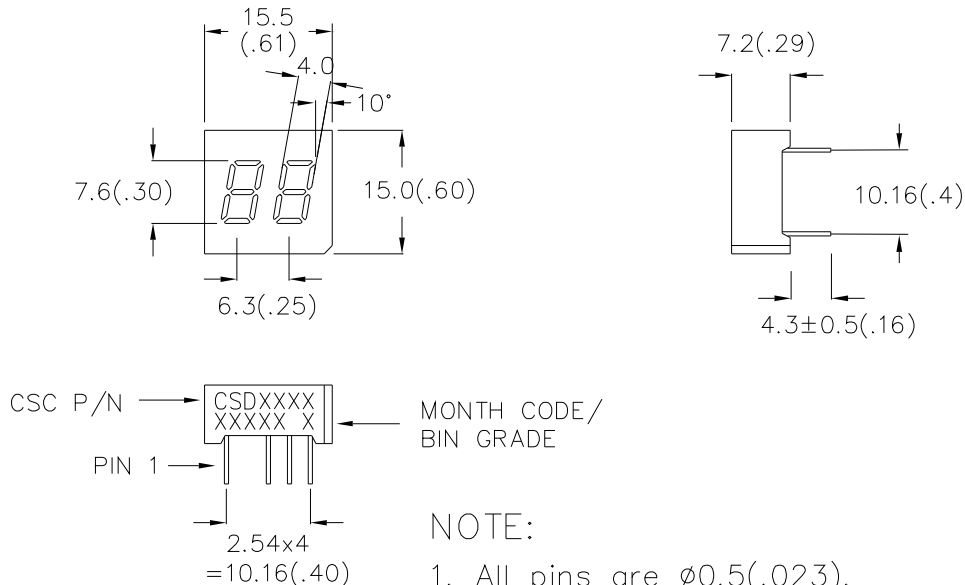
Features -

1. 0.3 inch (7.2mm) dight 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	
CSD-322G	GaAsP	Yellow Green	Common Anode
CSD-323G	GaAsP	Yellow Green	Common Cathode

Package Dimensions -

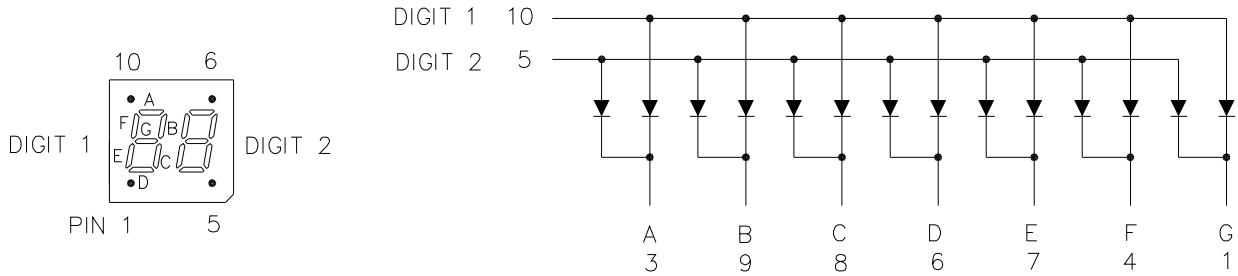


NOTE:

1. All pins are $\phi 0.5(.023)$.
2. Dimension in millimeter (inch), and tolerance is $\pm 0.25 (.01)$ unless otherwise noted.

Model No : CSD-322/323G

Internal Circuit Diagrams -



CSD-322 Common Anode.(CSD-323 is Common Cathode.)
No. 2 No Pin.

Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dice	Pd	75	mW
Continuous Forward Current Per Dice	IAF	25	mA
Peak Current Per Dice	IPF	90	mA
Derating Linear From 25°C Per Dice	-	0.33	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			

Spec. No	PS-ND-08070501
Rev.	A

Model No : CSD-322/323G

■ 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 =20mA
Luminous Intensity Per Segment	I _v	-	3500	-	ucd	I _F =10mA
Peak Emission Wavelength	λ _p	-	570	-	nm	I _F =20mA
Dominant Wavelength	λ _d	-	568	-	nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	-	30	-	nm	I _F =20mA
Reverse Current	I _R	-	-	100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _{V-m}	-	-	2:1		I _F =10mA

Model No : CSD-322/323G

Typical Electrical / Optical Characteristics Curves -

(Ta = 25°C Unless Otherwise Noted)

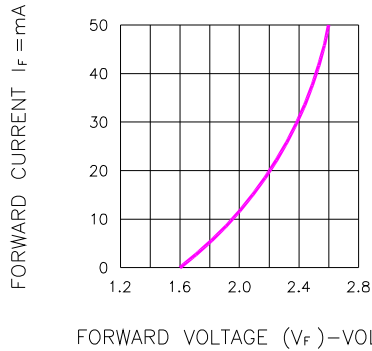


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

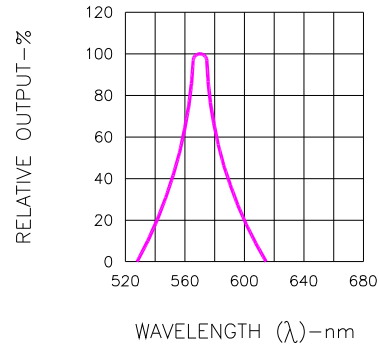


Fig.2 SPECTRAL RESPONSE

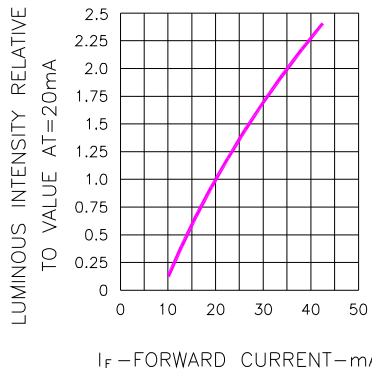


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

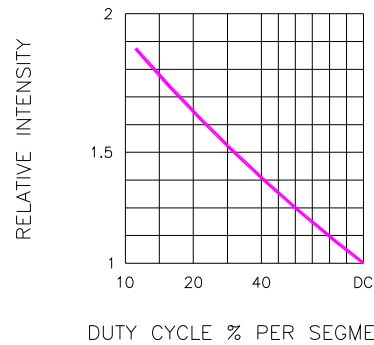


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

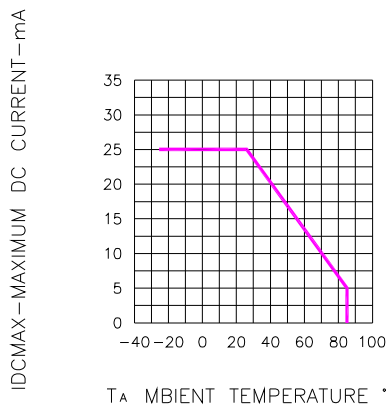


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

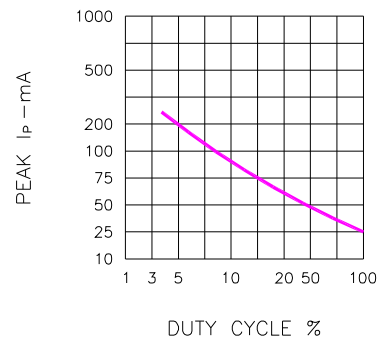


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1 KHz)