

SINGLE DIGIT DISPLAY

CSS-314E/315E

Feature

- 0.3 inch (7.62mm) Digit height.
- Case mold type
- Excellent character appearance
- Wide viewing angle

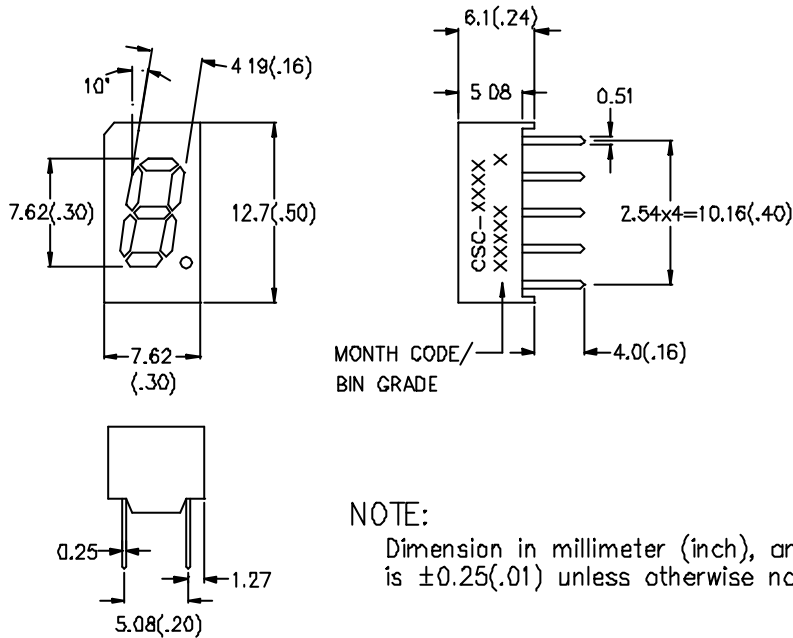
Model no.

- CSS-314E/315E Orange (GaAsP/ GaP)

Description

- CSS-314E is common anode
- CSS-315E is common cathode
-

Mechanical Dimension

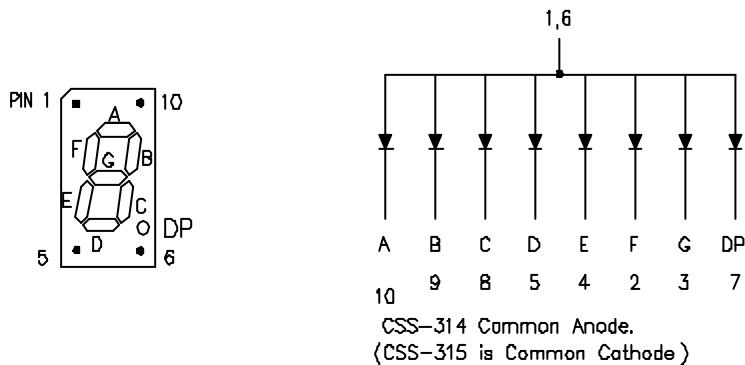


MONTH CODE/
BIN GRADE

NOTE:

Dimension in millimeter (inch), and tolerance is $\pm 0.25(.01)$ unless otherwise noted.

Typical Internal Equivalent Circuit



CSS-314 Common Anode.
(CSS-315 is Common Cathode)



CHINA
SEMICONDUCTOR
CORPORATION

CSS-314E/315E
GENERAL SPECIFICATIONS

Absolute Maximum Ratings ($T_A=25$)

Parameter	Symbol	Orange Red	Unit
Power dissipation per dice	PAD	70	mW
Derating Liner from 25 per dice	-	0.33	mA/
Continuous forward current per dice	IAF	25	mA
Peak current per dice (duty cycle 1/10, 1kHz)	IPF	90	mA
Reverse voltage per dice	VR	5	V
Operating temperature	Topr	-25 to +85	
Storage temperature	Tstg	-25 to +85	
Solder temperature 1/16 inch below seating plane for 3 seconds at 250			

Electro-optical Characteristics ($T_A=25$)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage per segment	V _F	I _F =20mA	-	2.0	2.8	V
Luminous intensity per segment	I _V	I _F =20mA	-	4	-	mcd
Peak emission wavelength	p	I _F =20mA	-	635	-	nm
Spectrum radiation bandwidth		I _F =20mA	-	35	-	nm
Reverse current	I _R	V _R =5V	-	-	100	μA

Bin Grade (Unit: mcd)

Device \ Bin	O	P	Q	R	S	
Orange Red	2.6~3.5	3.6~4.9	5.0~6.6	6.7~8.9	9.0~12.0	

* Tolerance : ± 20%.



CHINA
SEMICONDUCTOR
CORPORATION

ORANGE-RED (GaAsP/GaP) GENERAL SPECIFICATIONS

Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)

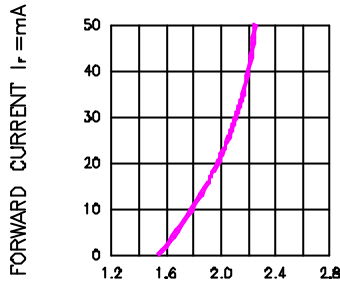


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

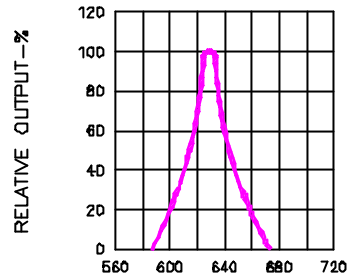


Fig.2 SPECTRAL RESPONSE

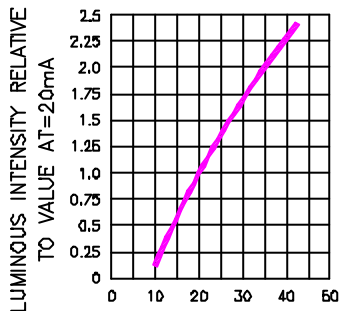


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

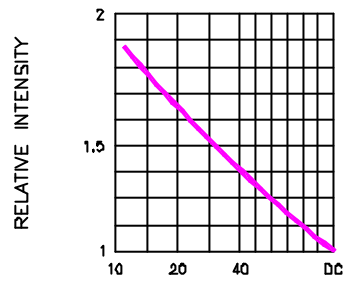


Fig.5 LUMINOUS INTENSITY VS. DUTY CYCLE

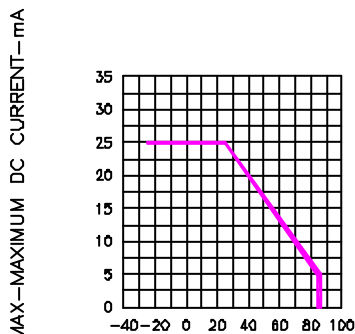


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

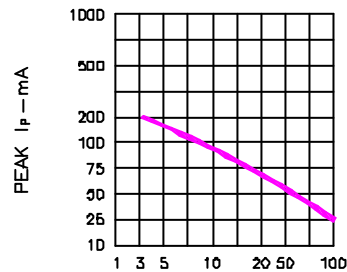


Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE $f=1$ KHz)