0.43 Inch ( 10.9 mm ) 1 Digit NUMERIC FRAME DISPLAY

## AllnGaP Red (632nm) 5082-7H50, 5082-7H51, 5082-7H53, 5082-7H56


(For other colour options, contact your local area Sales Manager)
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ABSOLUTE MAXIMUM RATINGS ${ }^{(1)}\left(\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}\right.$, unless otherwise specified)


ELECTRO-OPTICAL CHARACTERISTICS ${ }^{(1)}\left(\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}\right.$, unless otherwise specified)

| Part Number | 5082-7HXX |  |  |
| :---: | :---: | :---: | :---: |
| Parameter |  | Units | Test Condition |
| Luminous intensity ${ }^{(2)}\left(\mathrm{I}_{\mathrm{V}}\right)$ <br> Minimum ( Standard Current) | 6000 | ucd | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Typical (Standard Current) | 7800 | ucd | $I_{F}=10 \mathrm{~mA}$ |
| Minimum (Low Current) | 510 | ucd | $\mathrm{I}_{\mathrm{F}}=2 \mathrm{~mA}$ |
| Typical (Low Current) | 1000 | ucd | $\mathrm{I}_{\mathrm{F}}=2 \mathrm{~mA}$ |
| Forward Voltage ( $\mathrm{V}_{\mathrm{F}}$ ) <br> Typical (Standard Current) | 2.05 | Volts | $I_{F}=10 \mathrm{~mA}$ |
| Maximum (Standard Current) | 2.40 | Volts | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Typical (Low Current) | 1.80 | Volts | $\mathrm{I}_{\mathrm{F}}=2 \mathrm{~mA}$ |
| Maximum (Low Current) | 2.20 | Volts | $\mathrm{I}_{\mathrm{F}}=2 \mathrm{~mA}$ |
| Peak Wavelength | 632 | nm | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Dominant Wavelength | 624 | nm | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Spectral Line $1 / 2$ Width | 20 | nm | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |
| Reverse ${ }^{(3)}$. Voltage ( $\mathrm{V}_{\mathrm{R}}$ ) | 5 | Volts | $\mathrm{I}_{\mathrm{R}}=100 \mathrm{uA}$ |

## NOTES:

(1) Data per individual LED element
(2) Luminous intensity (ucd) = average light output per segment
(3) $B=$ breakdown

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## PIN ORIENTATION, SEGMENT IDENTIFICATION, AND PRODUCT MARKING



5082-7H50
5082-7H51
5082-7H53


Hue (Wavelength) Yellow or green only

Light Category


Date Code

Part Number $\qquad$

## SCHEMATICS



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## GRAPHICAL DATA AllnGaP 630nm ( $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$, unless otherwise specified)



Relative Intensity vs Case Temp.


Forward Current vs Forward Voltage


Maximum Forward Current vs Ambient Temperature

 Luminous Intensity vs Duty Cycle


Maximum Peak Current vs Duty Cycle

