

WP7113SEC/H

HYPER ORANGE

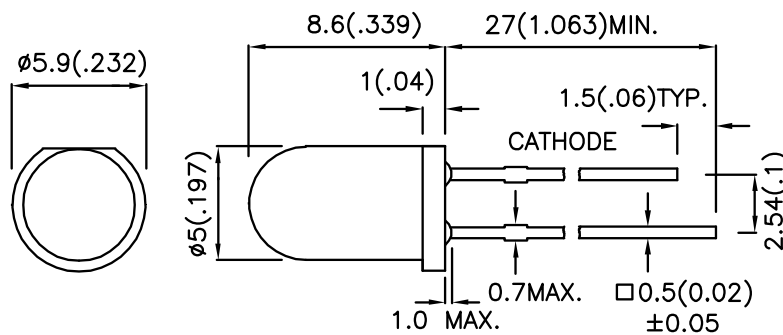
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.
- UV RATED EPOXY.

Description

This devices are made with TS InGaAlP.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25 (0.01)$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20mA | | Viewing Angle |
|-------------|------------------------|-------------|--------------------|-------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| WP7113SEC/H | HYPER ORANGE (InGaAlP) | WATER CLEAR | 3800 | 10000 | 20° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

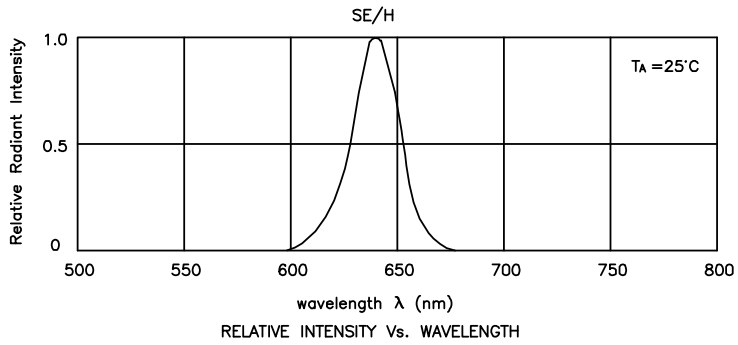
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Hyper Orange | 640 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | Hyper Orange | 630 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Hyper Orange | 25 | | nm | IF=20mA |
| C | Capacitance | Hyper Orange | 27 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Hyper Orange | 2.2 | 2.8 | V | IF=20mA |
| IR | Reverse Current | Hyper Orange | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Hyper Orange | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 120 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 150 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

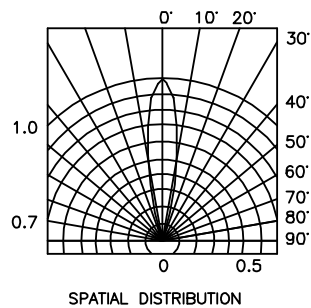
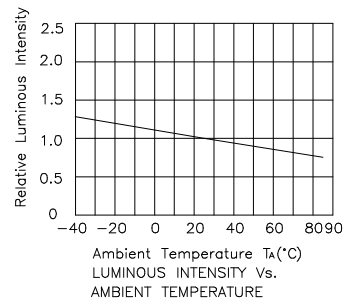
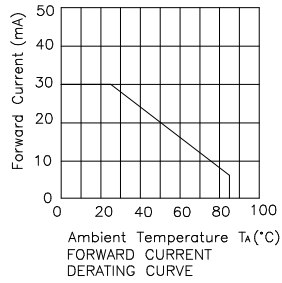
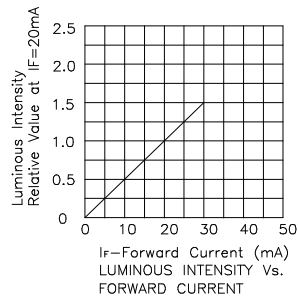
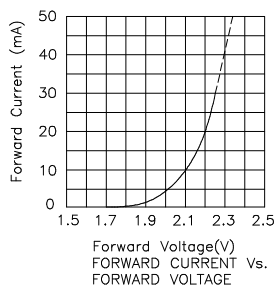
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.
- 5mm below package base.



Hyper Orange

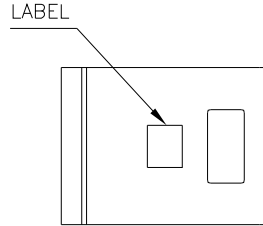
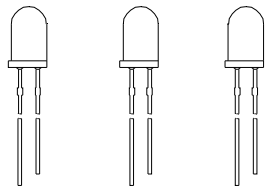
WP7113SEC/H



Kingbright

PACKING & LABEL SPECIFICATIONS

WP7113SEC/H

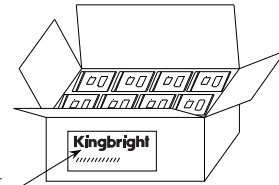


500PCS / BAG




20K / 9# BOX

OUTSIDE LABEL



10K / 5# BOX

OUTSIDE LABEL

| | |
|--|-----------------------------|
| Kingbright | |
| Q.C. | OC xxx xx xxxx PASSED |
| TYPE NO : WP7113XXX | |
| QUANTITY : 500 pcs | |
| S/N : xxx | CODE: XX |
| LOT NO :  | |
| RoHS Compliant | |

Date

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.