

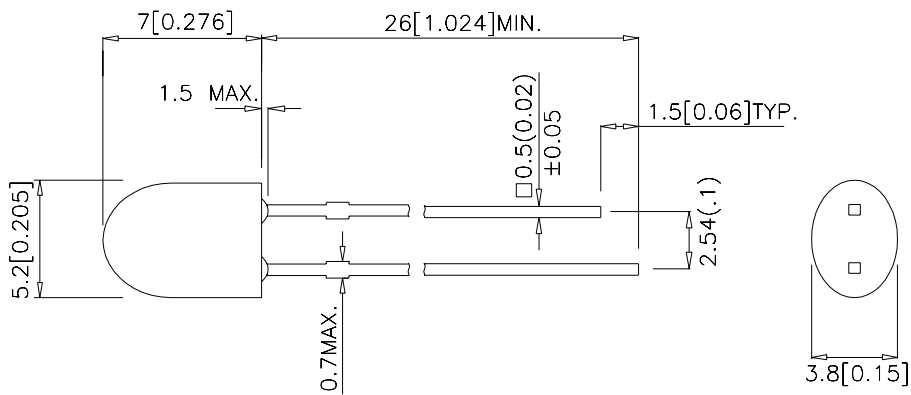
### Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE/LOW CURRENT CAPABILITY.

### 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 lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2 1/2
W5603SIDL/H/SD	HYPER ORANGE(InGaAlP)	RED SEMI DIFFUSED	1500	2500	100°(H) 50°(V)

Note:

1.  $\theta_{1/2}$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at $T_A=25^\circ\text{C}$

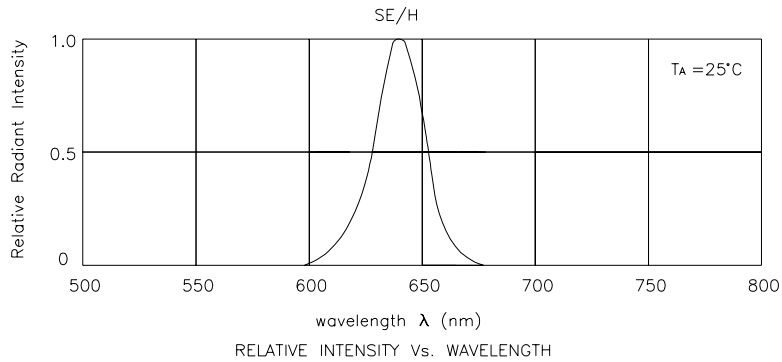
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{\text{peak}}$	Peak Wavelength	Hyper Orange	640		nm	$I_F=20\text{mA}$
$\lambda_D$	Dominant Wavelength	Hyper Orange	630		nm	$I_F=20\text{mA}$
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Orange	25		nm	$I_F=20\text{mA}$
C	Capacitance	Hyper Orange	27		pF	$V_F=0\text{V}; f=1\text{MHz}$
$V_F$	Forward Voltage	Hyper Orange	2.2	2.8	V	$I_F=20\text{mA}$
$I_R$	Reverse Current	Hyper Orange		10	$\mu\text{A}$	$V_R = 5\text{V}$

## Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

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 5 Seconds	

Notes:

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



## Hyper Orange

### W5603SIDL/H/SD

