

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA*70mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
WP7676CSEC/H	HYPER ORANGE (InGaAlP)	WATER CLEAR	1500	1800	70°
			*4700	*7000	

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. * Luminous intensity with asterisk is measured at 70mA under 40ms pulse width.
3. Drive current between 10mA and 30mA are recommended for long term performance.
4. Operation at current below 10mA is not recommended.

Electrical / Optical Characteristics at T_A=25°C

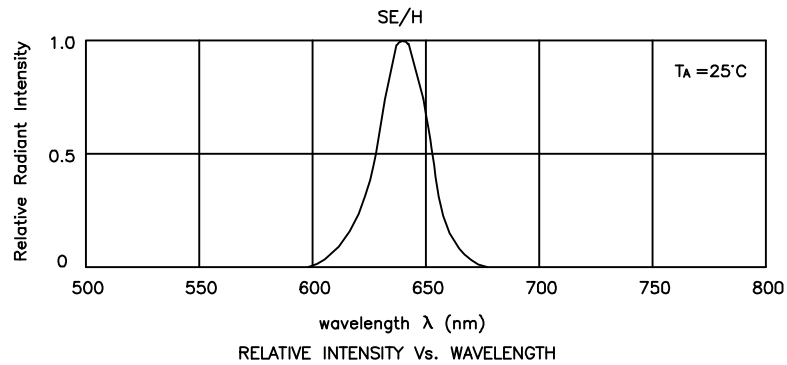
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Orange	640		nm	I _F =20mA
λ_D	Dominant Wavelength	Hyper Orange	630		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Orange	25		nm	I _F =20mA
C	Capacitance	Hyper Orange	27		pF	V _F =0V; f=1MHz
V _F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

Absolute Maximum Ratings at T_A=25°C

Parameter	Hyper Orange	Units
Power dissipation	196	mW
DC Forward Current	70	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	

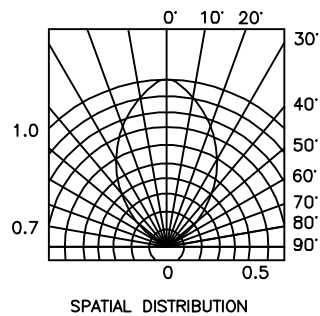
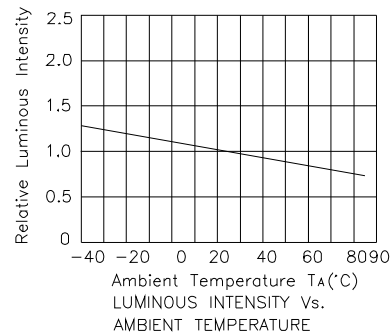
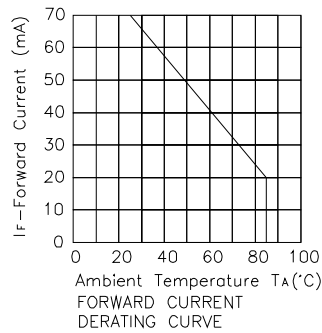
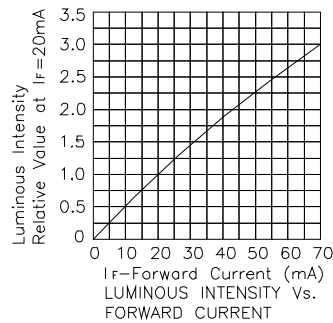
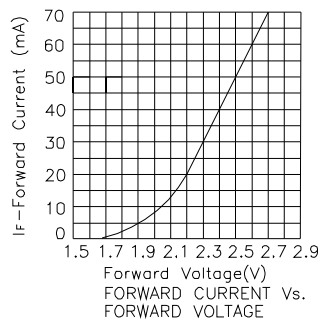
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



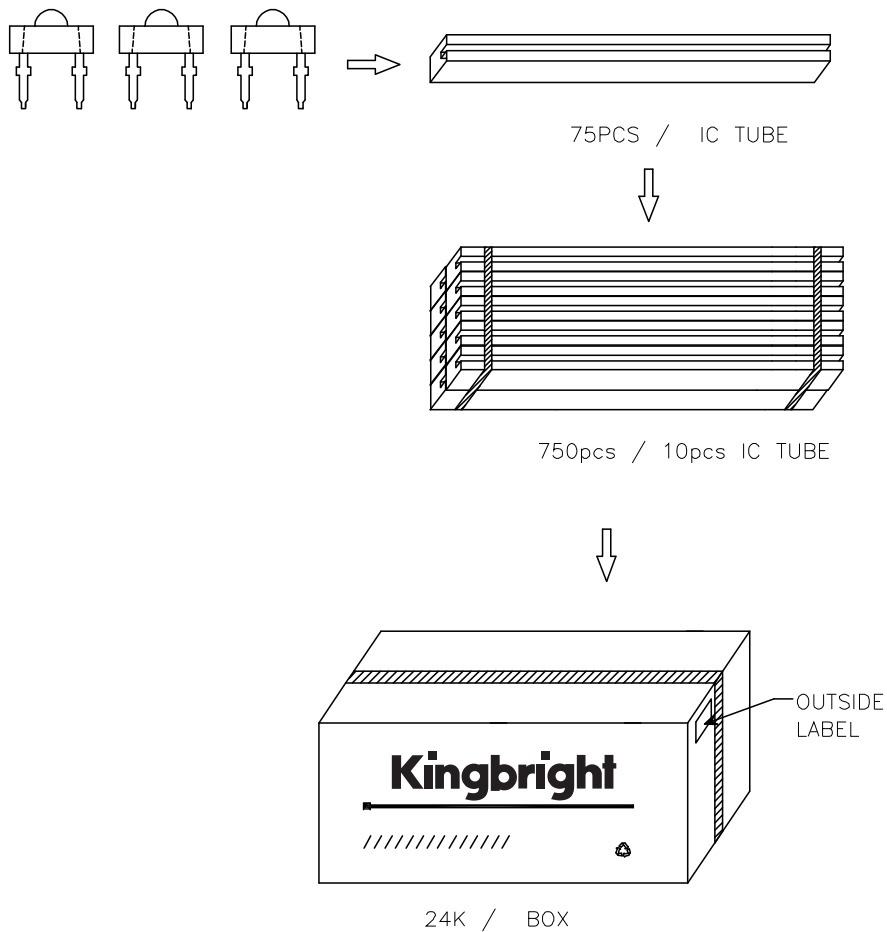
Hyper Orange


WP7676CSEC/H



PACKING & LABEL SPECIFICATIONS

WP7676CSEC/H



Kingbright	
Q.C.	QC xx xx. xxxx PASSED
TYPE NO : WP7676CSEC/H	
QUANTITY : 750 pcs	
S/N : XXX	CODE: XX
LOT NO:  xxxxxxxxxxxx	
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: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Kingbright:](#)

[WP7676CSEC/H](#)