### 1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608SEC/J3 Hyper Red

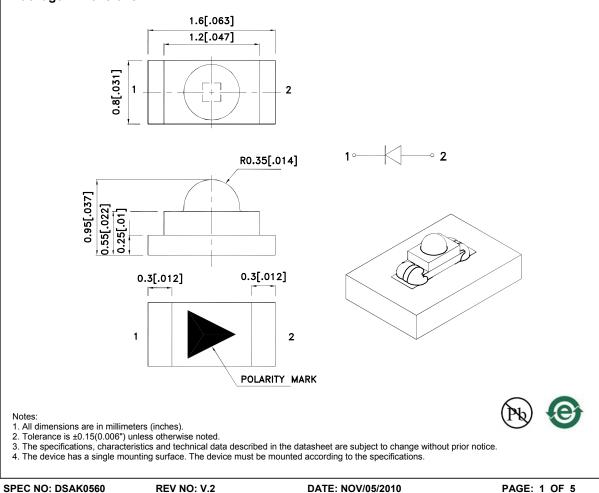
#### Features

- 1.6mmX0.8mm SMT LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

The Hyper Red device is based on light emitting diode chip made from AlGaInP.

#### **Package Dimensions**



Downloaded from Elcodis.com electronic components distributor

APPROVED: WYNEC

CHECKED: Allen Liu

DATE: NOV/05/2010 DRAWN: Y.H.Wu PAGE: 1 OF 5 ERP: 1203010338

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD1608SEC/J3	Hyper Red (AlGaInP)	Water Clear	2300	3000	60°

Notes: 1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	625		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	25		nm	I⊧=20mA
С	Capacitance	Hyper Red	27		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red	2.2	2.8	V	l⊧=20mA
lr	Reverse Current	Hyper Red		10	uA	VR=5V

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at TA=25°C

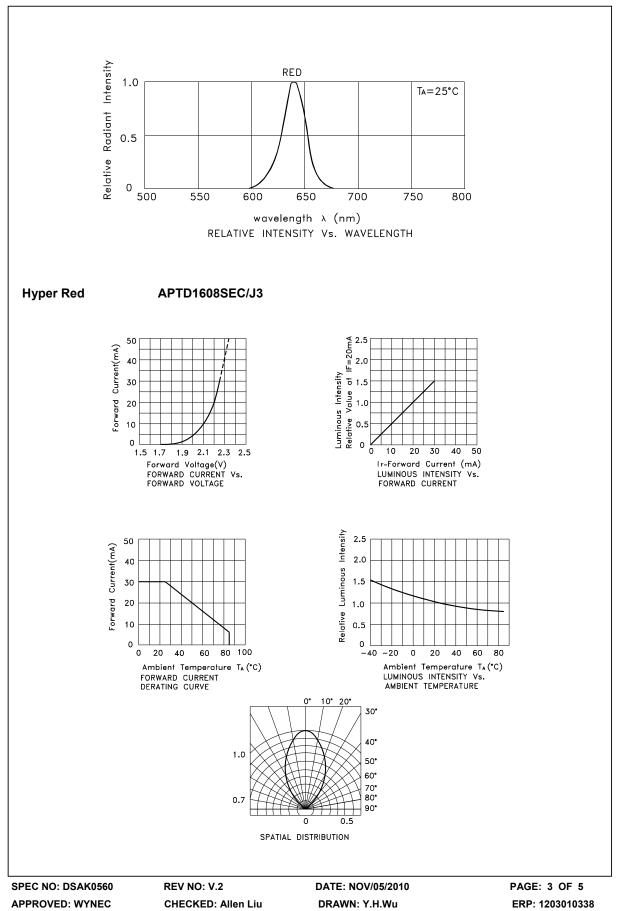
Parameter	Hyper Red	Units	
Power dissipation	84	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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### APTD1608SEC/J3

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



