### 3.2x2.4mm SMD CHIP LED LAMP

Part Number: MTSM2432-UR



3Northway Lane North Latham,New York 12110. Tollfree:1.800.984.5337 Phone:1.518.956.2980 Fax:1.518.785.4725 *Http://www.marktechopto.com* 

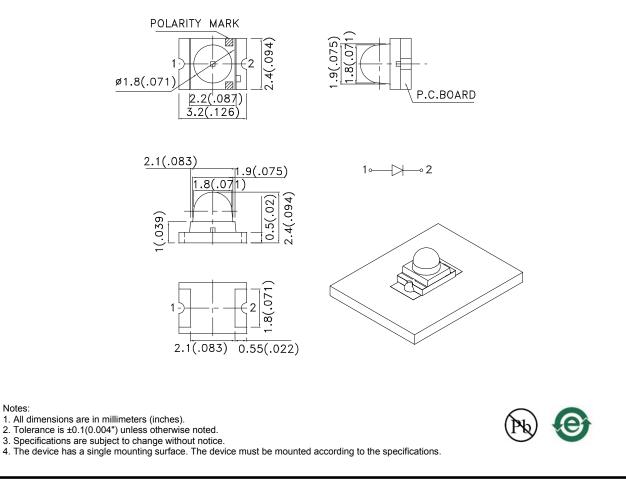
## Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

# Description

The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode.

### Package Dimensions



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# **Selection Guide**

Part No.	Dice	Lens Type	lv (mo @ 20	/	Viewing Angle [1]
			Min.	Тур.	201/2
MTSM2432-UR	Hyper Red (AlGaInP)	WATER CLEAR	480	1000	20°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
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	650		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	630		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	I⊧=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Hyper Red	1.95	2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red		10	uA	VR=5V

Notes:

1.Wavelength: +/-1nm.

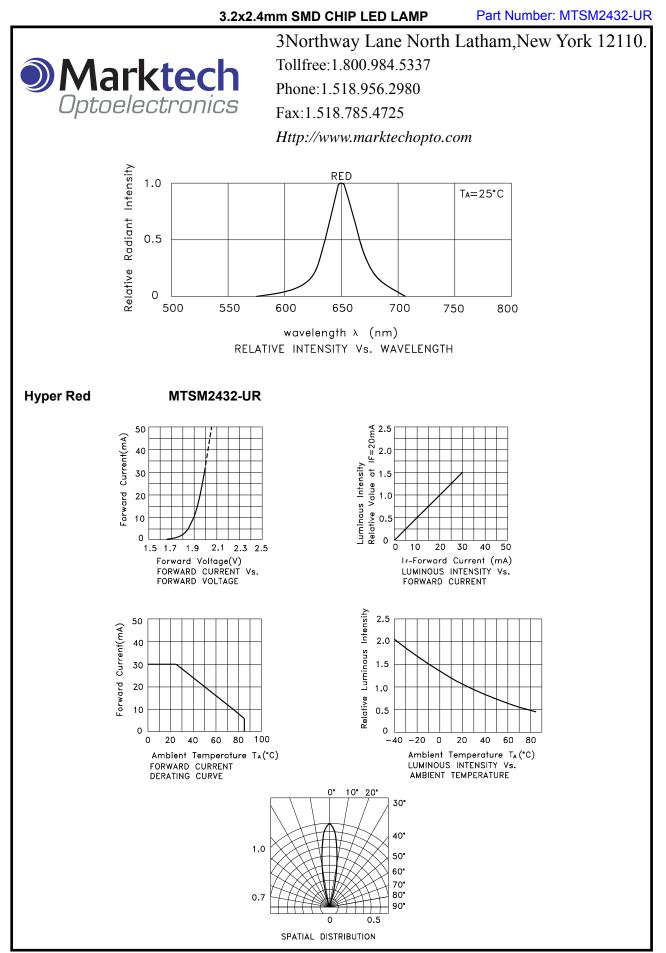
2. Forward Voltage: +/-0.1V.

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

Parameter	Hyper Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	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.



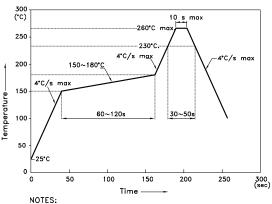


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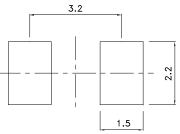
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



 We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
Don't cause stress to the epoxy resin while it is exposed to high temperature.
Number of reflow process shall be 2 times or less.





#### Tape Dimensions (Units : mm)

