T-1 3/4 (5mm) ROUND LED LAMP

PRELIMINARY SPEC

Part Number: WP7143SURC Hyp

Hyper Red

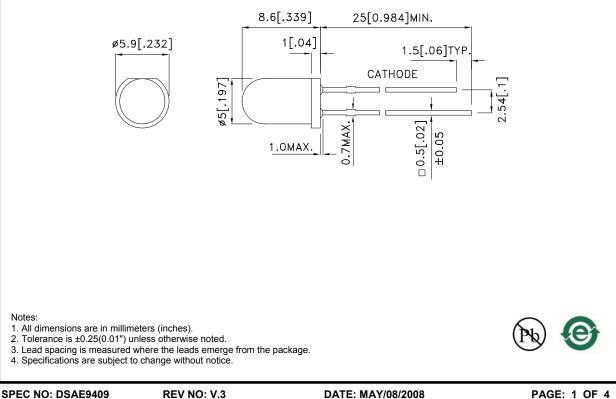
Features

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

Description

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

Package Dimensions



APPROVED: WYNEC

REV NO: V.3 CHECKED: Allen Liu DATE: MAY/08/2008 DRAWN: R.Chen



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]	
			Min.	Тур.	201/2	
WP7143SURC	Hyper Red (InGaAIP)	WATER CLEAR	480	1200	30°	

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	640		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red	628		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
IR	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/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.

