

L-7104SURC-E HYPER RED

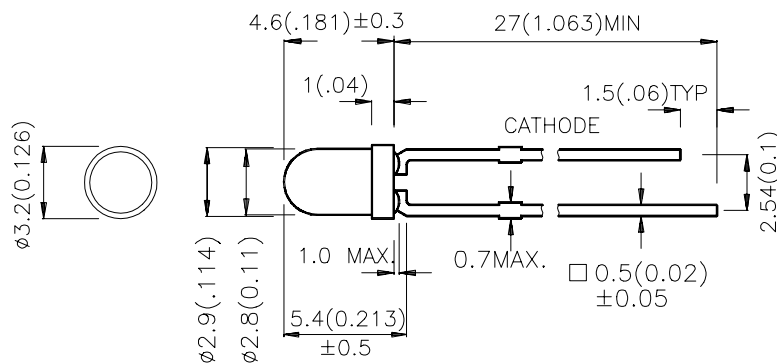
Features

- ULTRA BRIGHTNESS.
- WATER CLEAR LENS IS AVAILABLE.
- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- IC COMPATIBLE/LOW CURRENT CAPABILITY.

Description

The Hyper Red source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode.

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.	2θ1/2
L-7104SURC-E	HYPER RED (InGaAlP)	WATER CLEAR	1000	1300	34°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λ _D	Dominate Wavelength	Hyper Red	630		nm	IF=20mA
Δλ _{1/2}	Spectral Line Halfwidth	Hyper Red	25		nm	IF=20mA
C	Capacitance	Hyper Red	45		pF	VR=0V;f=1MHz
V _F	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
I _R	Reverse Current	Hyper Red		10	uA	VR = 5V

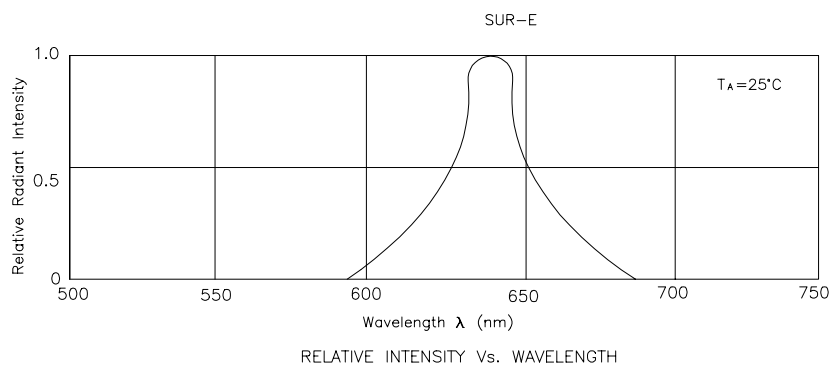
Absolute Maximum Ratings at T_A=25°C

Parameter	Hyper Red	Units
Power dissipation	150	mW
DC Forward Current	40	mA
Peak Forward Current [1]	200	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:

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

2. 4mm below package base.



Hyper Red L-7104SURC-E

