

W7104EC HIGH EFFICIENCY RED

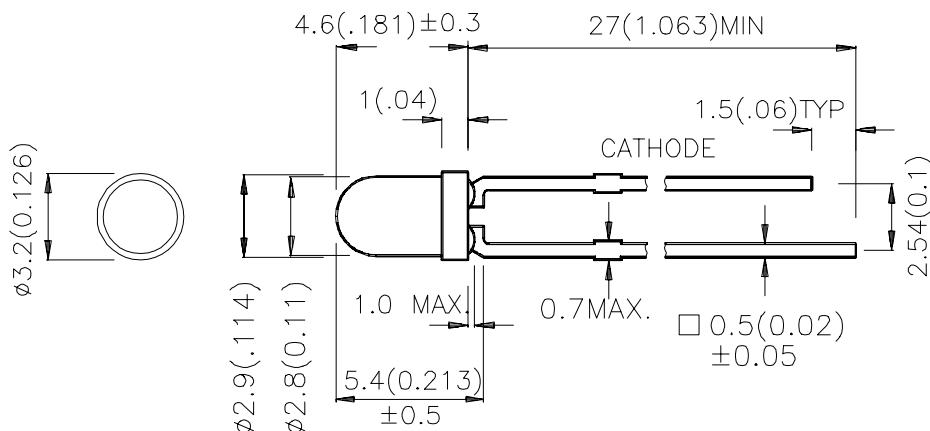
Features

- LOW POWER CONSUMPTION.
 - POPULAR T-1 DIAMETER PACKAGE.
 - GENERAL PURPOSE LEADS.
 - RELIABLE AND RUGGED.
 - LONG LIFE - SOLID STATE RELIABILITY.
 - AVAILABLE ON TAPE AND REEL.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



Notes:

- Notes:

 1. All dimensions are in millimeters (inches).
 2. Tolerance is ± 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	I _V (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	
W7104EC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	18	60	34°

Note:

1. 61/2 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	High Efficiency Red	627		nm	I _F =20mA
λ _D	Dominate Wavelength	High Efficiency Red	625		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	I _F =20mA
C	Capacitance	High Efficiency Red	15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red	2.0	2.5	V	I _F =20mA
I _R	Reverse Current	High Efficiency Red		10	uA	V _R = 5V

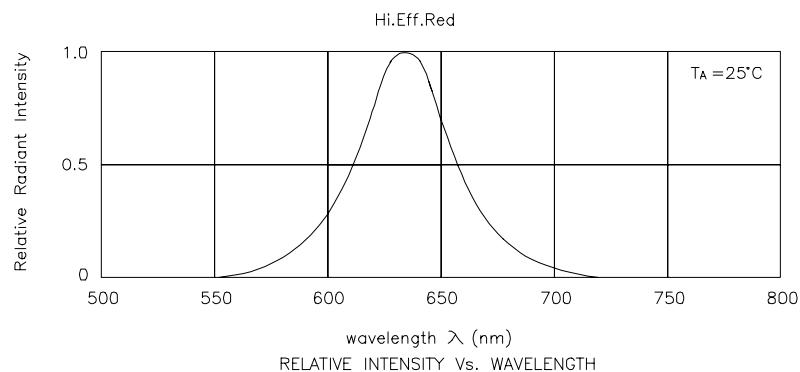
Absolute Maximum Ratings at T_A=25°C

Parameter	High Efficiency Red	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	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. 2mm below package base.



High Efficiency Red

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