

HSDL - 4261

High-Power T-1 $\frac{3}{4}$ (5mm) AlGaAs Infrared (870nm) Lamp

LITEON®

Data Sheet



Description

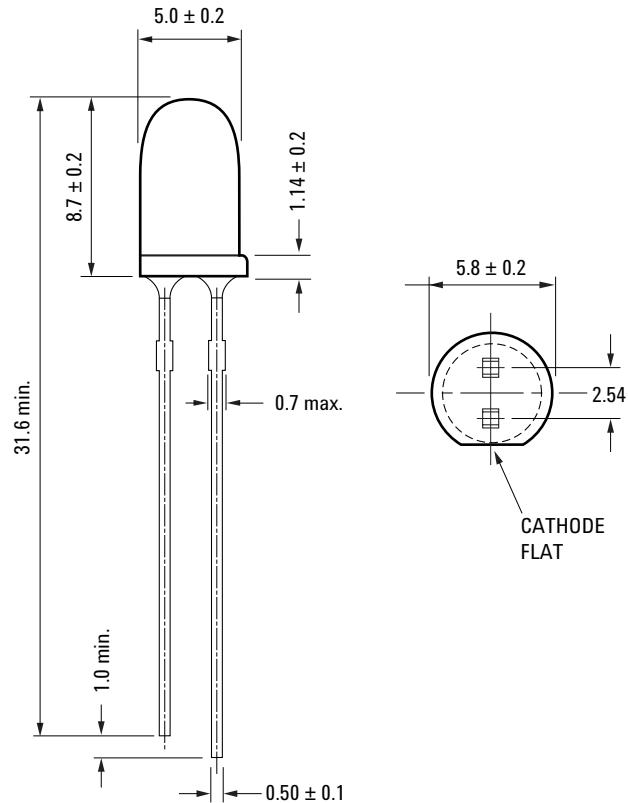
The HSDL-4261 Infrared emitter was designed for applications that require high power, low forward voltage and high speed. It utilizes Aluminum Gallium Arsenide (AlGaAs) LED technology and is optimized for speed and efficiency at emission wavelengths of 870nm. The material used produces high radiant efficiency over a wide range of currents. The emitter is packaged in clear T-1 $\frac{3}{4}$ (5mm) package.

Features

- Very High Power AlGaAs LED Technology
- 870nm Wavelength
- T-1 $\frac{3}{4}$ Package
- Low Cost
- Low Forward Voltage: 1.4V at 20mA
- High Speed: 15ns Rise Times

Applications

- Industrial IR Equipments
- IR Portable Instruments
- Consumer Electronics (Optical mouse etc)
- High Speed IR Communications (IR LANs, IR Modems, IR Dongles etc)
- IR Audio
- IR Telephones



	Lead Form	Shipping Option
HSDL-4261	Straight	Bulk

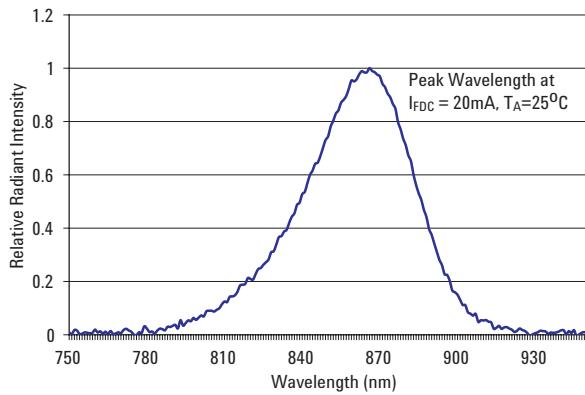


Figure 1. Relative Radiant Intensity vs. Wavelength

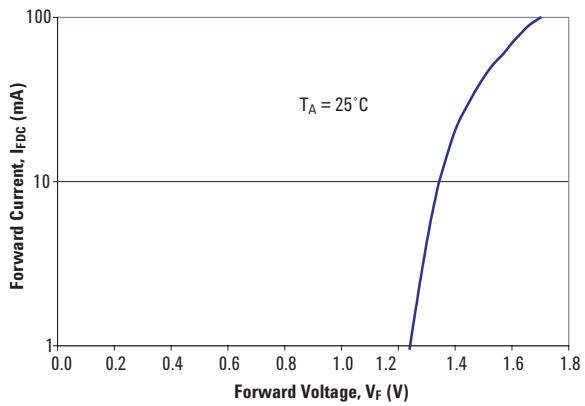


Figure 2. DC Forward Current vs. Forward Voltage

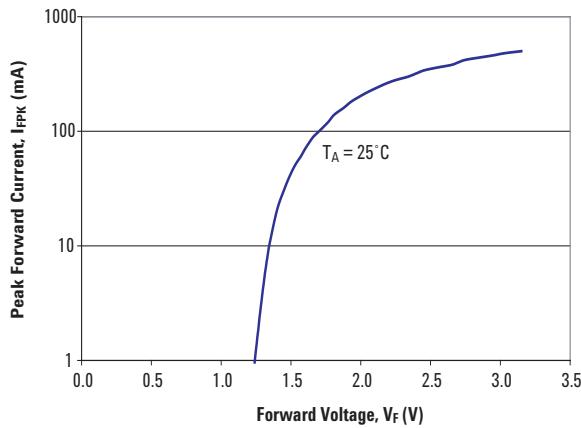


Figure 3. Peak Forward Current vs. Forward Voltage

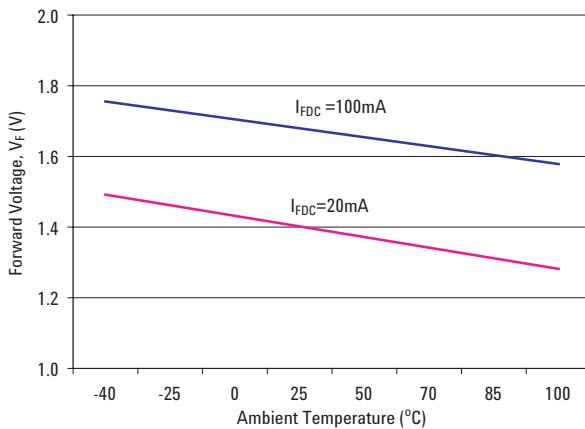


Figure 4. Forward Voltage vs. Ambient Temperature

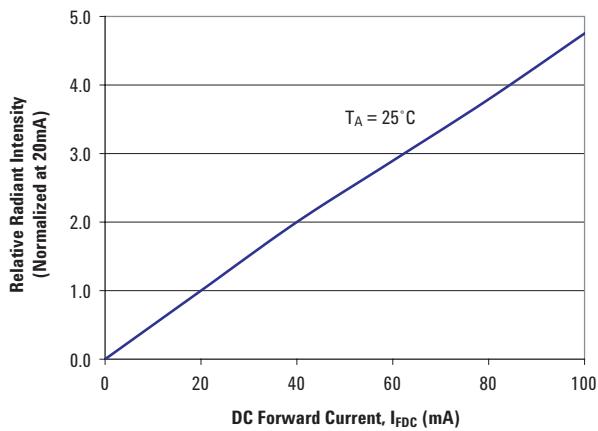


Figure 5. Relative Radiant Intensity vs. DC Forward Current

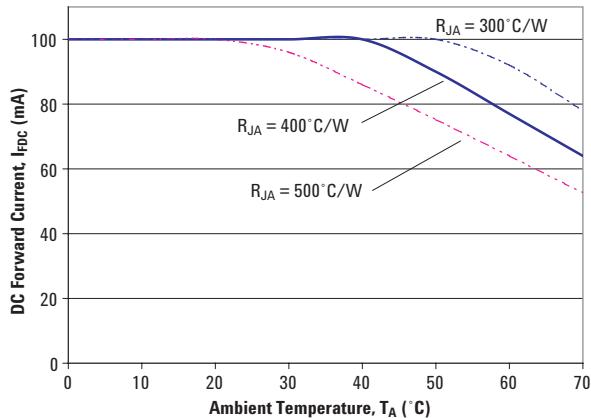


Figure 6. DC Forward Current vs. Ambient Temperature

Derated Based on $T_{JMAX}=110^{\circ}\text{C}$

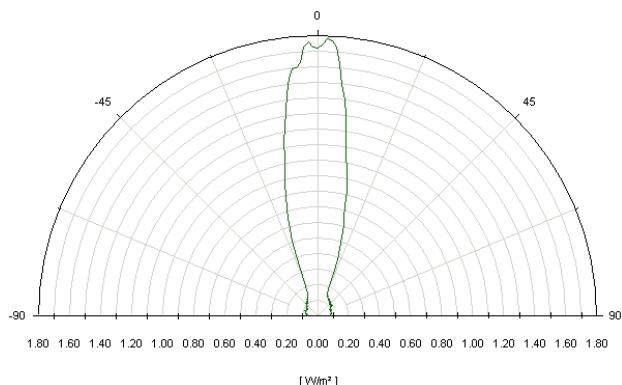


Figure 7. Radiant Intensity vs. Angular Displacement

For company and product information, please go to our web site: WWW.liteon.com or
<http://optodatabook.liteon.com/databook/databook.aspx>

Data subject to change. Copyright © 2007 Lite-On Technology Corporation. All rights reserved.

LITEON®

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Infrared Emitters](#) category:

Click to view products by [Lite-On manufacturer:](#)

Other Similar products are found below :

[LTE-309](#) [LTE-3279K](#) [LTE-4206C](#) [LTE-4208C](#) [EAILP03RDAA6](#) [LTE-2871C](#) [LTE-4238](#) [ASDL-4264-C22](#) [OED-EL305F4C50-HT](#) [OP216-004](#) [LTE-3376](#) [EEL109](#) [HL-PST-1608IR1C-L4](#) [SFH 7016](#) [IN-S126ETIR](#) [IN-S126DSHIR](#) [IN-S126ETHIR](#) [IN-P32ZTHIR](#) [IN-S42CTQHIR](#) [IN-S126BTHIR](#) [IN-S63DTHIR](#) [IN-S85BTHIR](#) [IN-S63FTHIR](#) [EAIST3535A1](#) [EAIST3535A4](#) [MHT153IRCT](#) [MHS153IRCT](#) [HIR204C/H0](#) [HIR323C](#) [LTE-209](#) [HSDL-4400#011](#) [IR12-21C/TR8](#) [IR17-21C/TR8](#) [IR26-21C/L110/TR8](#) [IR91-21C/TR10](#) [KM-4457F3C](#) [L-53F3BT](#) [WP3A10F3C](#) [LTE-4208](#) [IR42-21C/TR8](#) [HSDL-4261](#) [APA3010F3C-GX](#) [SE2460-140](#) [OP266-905](#) [OP280D](#) [LTE-2871](#) [HIR8323/C16](#) [KP-2012SF4C](#) [KPA-3010F3C](#) [L-7113SF6C](#)