Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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ASDL-4264

High Efficiency T-1 ¾ (5mm) Infrared (940nm) Lamp

Data Sheet

Description

ASDL-4264 is a Infrared emitter that is optimized for high efficiency at emission wavelength of 940nm. This device is designed for high current and low forward voltage applications. It is encapsulated in T1-3/4 (5mm) package and is suitable for high performance replacements of standard emitters.

Applications

- Smoke Detector
- IR Remote Control for Consumer Devices
- IR Remote Control for Industrial Equipment
- Photo-interrupters
- Reflective Applications
- Infrared Illuminator Security Camera

Features

- T 1- ¾ Package
- 940nm Wavelength
- Narrow Viewing Angle
- Low Forward Voltage
- Ideal for High Current and Low Forward Voltage Application
- Paired Device to ASDL-5770 and ASDL-5771
- Design for Smoke Detector & Fire Alarm Application
- Lead Free & ROHS Compliant
- Available in Tape & Reel

Ordering Information

Part Number	Lead Form	Color	Packaging	Shipping Option
ASDL-4264-C22	Straight	Clear	Tape & Reel	2000pcs
ASDL-4264-C31			Bulk	8000pcs / Carton

Absolute Maximum Ratings at 25°C

Parameter	Symbol	Min.	Max	Unit	Reference
Peak Forward Current	I_{FPK}		3	A	300pps
DC Forward Current	I_{FDC}		150	mA	
Power Dissipation	P_{DISS}		250	mW	
Reverse Voltage	V_R		5	V	
Operating Temperature	T_O	-40	85	°C	
Storage Temperature	T_S	-55	100	°C	
LED Junction Temperature	T_J		110	°C	
Lead Soldering Temperature [1.6mm (0.063") From Body]	260°C for 5 seconds				

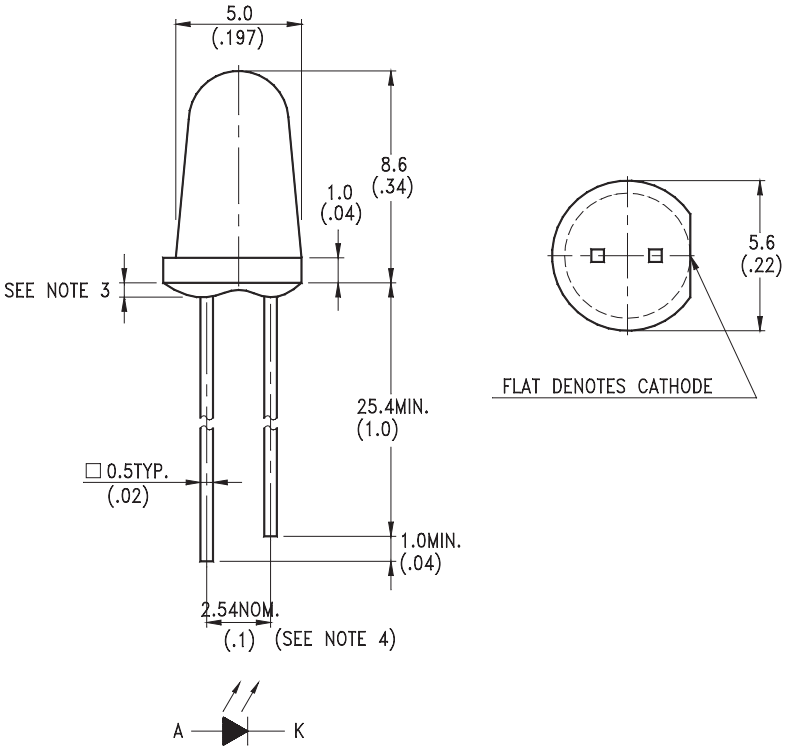
Electrical Characteristics at 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V_F		1.2	1.6	V	I_{FDC}=20mA
Reverse Voltage	V_R	5			V	I_R=100uA
Thermal Resistance Junction to Ambient	$R\Theta_{ja}$		250		°C/W	

Optical Characteristics at 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition	Bin
Radiant On-Axis Intensity	I_E	6.02		12.63	mW/Sr	I_{FDC}=20mA	Bin A
		8.42					Bin B
Viewing Angle	$2\theta_{1/2}$		22		deg		
Peak wavelength	λ_{PK}		940		nm	I_{FDC} = 20mA	
Spectral Width	$\Delta\lambda$		50		nm	I_{FDC} = 20mA	
Optical Rise Time	t_r		1		us	I_{FPK}=100mA Duty Factor=50% Pulse Width=10us	
Optical Fall Time	t_f		1		us	I_{FPK}=100mA Duty Factor=50% Pulse Width=10us	

Package Dimension



Notes:
1. All dimensions are in millimeters (inches)
2. Tolerance is + 0.25mm (.010") unless otherwise noted
3. Protuded resin under flange is 1.5mm (.059") max
4. Lead spacing is measured where leads emerge from package
5. Specifications are subject to change without notice

Typical Electrical / Optical Characteristics

(T_A = 25°C Unless Otherwise Indicated)

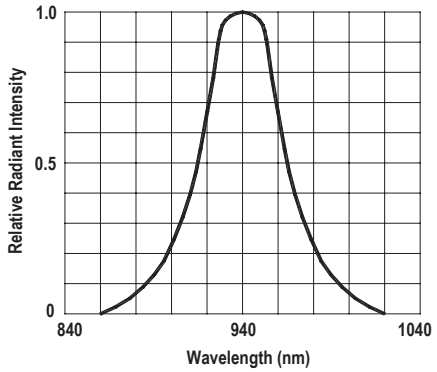


Figure 1. Spectral Distribution

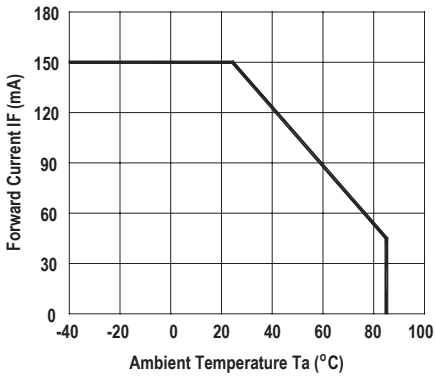


Figure 2. Forward Current Vs. Ambient Temperature

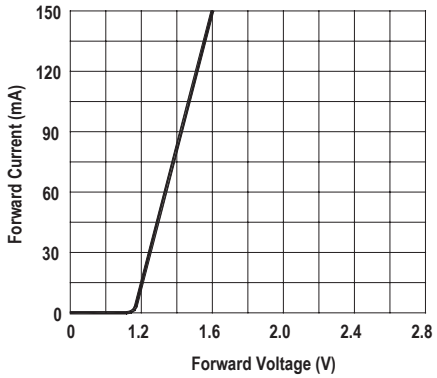


Figure 3. Forward Current Vs. Forward Voltage

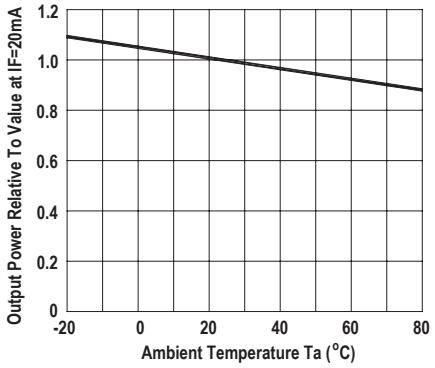


Figure 4. Relative Radiant Intensity Vs. Ambient Temperature

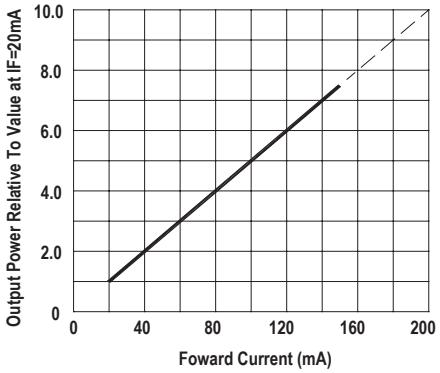


Figure 5. Relative Radiant Intensity Vs. Forward Current

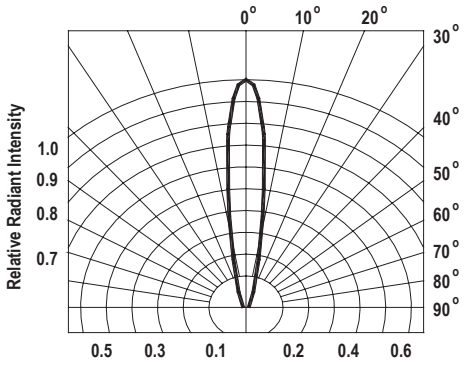


Figure 6. Radiation Diagram

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http://optodatabook.liteon.com/databook/databook.aspx