



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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



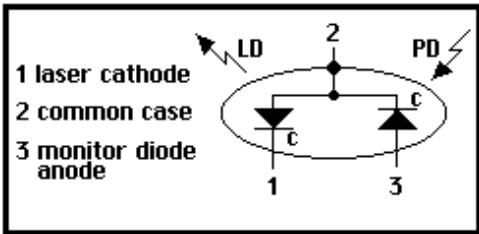
## US-Lasers: 850nm-30mW - Infrared Laser Diode and Infrared Diode Laser Module

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TECHNICAL DATA for LASER MODULE		
<b>Barrel Specs:</b>	<b>Collect Specs:</b>	<b>Lens Housing Specs:</b>
<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• Dia: 10.4mm</li> <li>• Length: 17mm</li> </ul>	<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 4.3mm Aperature</li> <li>• Half Hard Brassbbb</li> </ul>	<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 3.7mm Aperature</li> <li>• 7mm Plastic Lens</li> </ul>

### IR LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

<b>TECHNICAL DATA</b> IR light output                      850nm Optical power output                30mW CW Package Type                            5.6mm Built-in photo diode for monitoring laser output	 <p>1 laser cathode 2 common case 3 monitor diode anode</p>
<b>Pin Out Diagram</b>	

Items	Symbols	Values	Unit
Optical output power	Po	30	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +50	°C
Storage temperature	Tstg	-40 ~ +85	°C

### OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 °C)

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	30	-	mW	-
Threshold current	Ith	30	50	70	mA	Po=30mW
Operating current	Iop	60	80	100	mA	Po=30mW
Operating voltage	Vop	2.0	2.2	2.7	V	Po=30mW
Lasing wavelength	ep	830	850	870	nm	Po=30mW
Beam divergence		8	10	11	deg	Po=30mW
Beam divergence		25	31	40	deg	Po=30mW
Monitor current	Im	100	300	500	uA	Po=30mW
Astigmatism	As	-	11	-	um	Po=30mW
Slope Efficiency (mW/mA)		0.3	0.4	0.7		Po=30mW
MTTF			10000 hrs.			Po=30mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					

