

# LASER COMPONENTS GmbH

## Address

Werner-von-Siemens-Str. 15 P.O. Box 1129  
D-82140 Olching D-82133 Olching  
Phone ++49-8142-28640 · Fax ++49-8142-286411  
E-Mail: info@lasercomponents.com · Web: www.lasercomponents.com



### Datasheet for Laser Components Leadchalkogenide - Diodelaser

Order Number : .....  
LC Order Number : .....  
Part Number : 03-LI389HV-89  
Customer Name : .....

Lasertype : IR-2980...  
Wavenumber : 2980.....  
Region : cm<sup>-1</sup>.....

Special Conditions : IR-2980-GMP-Premium.  
-Plus.....

Polarity : +  
Housing : -  
(groun)

Operator : Huber.....  
Serial Number : 389-HV-1-89.....  
Date : 29/Sep/2003  
Max Operationtemp / K : 85.....  
Max Diode Current cw / mA : 320.....

### Record of Laser No. 389-HV-1-89

Date : 29/Sep/2003

Operator: Huber

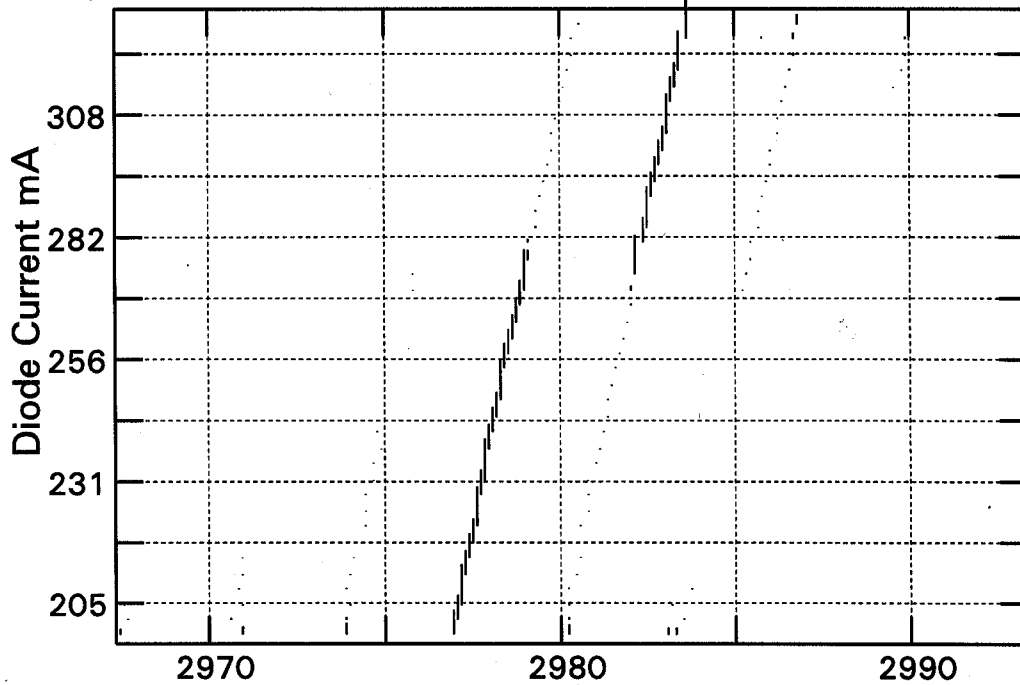
T / K	threshold current I <sub>th</sub> /mA	wavenumber at threshold cm <sup>-1</sup>	maximum current I <sub>m</sub> /mA	maximum total power P <sub>m</sub> /mWatt
79	193	2969	325	1.04
80	196	2976	325	1.05
81	198	2977	322	1.02
82	202	2978	323	1.02
83	204	2982	323	1.00
84	206	2986	320	0.96

### Definition :

maximum total power : the power which the laser diode radiates at maximum current.



# Modal Distribution



max modal Power %	total Power mWatt
86.19	1.1873
74.26	0.9568-L
88.81	0.9524
93.79	0.8897
95.51	0.9240
96.85	0.9022
97.01	0.8758
97.04	0.8407
96.60	0.8177
96.44	0.7687
96.25	0.7089
95.90	0.7335
95.26	0.8784
92.58	0.6766
87.71	0.6229
69.16	0.6270
49.16	0.6018
83.08	0.5428
96.66	0.5263
98.41	0.5240
98.70	0.4577
98.79	0.4784
98.80	0.4389
99.85	0.4026
98.79	0.3826
99.00	0.3515
98.43	0.3225
99.53	0.3173
98.81	0.2978
99.56	0.2505
98.55	0.2398
99.53	0.2003
98.37	0.1852
99.15	0.1602
87.34	0.1295
96.36	0.1054
94.56	0.0772
91.47	0.0514-L
79.77	0.0255-L
34.89	0.0048-L

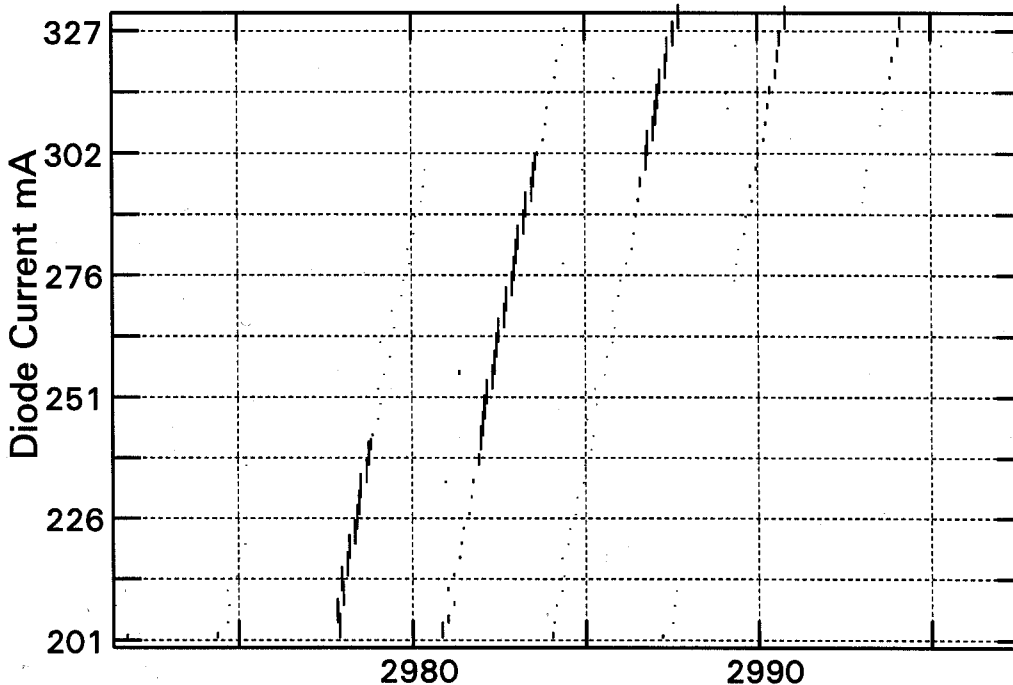
09/29/03

Operator:Huber

Laser: 389-HV-1-89

Temperature: 81.00 K

# Modal Distribution



max modal Power %	total Power mWatt
39.59	1.2404
48.60	0.9425-L
57.41	0.9167
64.46	0.8973-L
70.93	0.8665-L
75.60	0.8499-L
82.83	0.8540
85.49	0.7855
81.67	0.7582
53.63	0.7782-L
66.43	0.7129
81.55	0.7202
91.00	0.6729
94.78	0.6229
95.78	0.6314
93.37	0.6110-L
96.94	0.5510
97.78	0.5356
97.79	0.5277
98.05	0.4993
98.33	0.4575
98.35	0.4586
84.32	0.4389-L
97.99	0.4189
97.66	0.3913
96.63	0.3576
91.54	0.3399
87.85	0.3123
66.94	0.2778
82.80	0.2456-L
92.19	0.2235
92.89	0.2055
92.54	0.1730
91.09	0.1538
90.14	0.1269
88.54	0.1068
85.89	0.0801-L
81.79	0.0554
68.42	0.0287
41.26	0.0075-L

09/29/03

Operator:Huber

Laser: 389-HV-1-89

Temperature: 82.00 K