



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!



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# VOL850-5I

• 850nm 5mW adjustable laser module •

## Product Description

VOL850-5I is an 850nm laser module using a MOCVD grown laser diode with quantum well structures. It is an ideal light source for measurement and medical applications.

## Features

- Adjustable power from 0.8mW to 5.0mW
- APC control (Automatic power control)
- Slow start circuit
- Aspherical lens
- Package Type: 10.4mm x 17.0mm (OD x Length)

### ▪ Absolute Maximum Rating (Tc=25°C)

Characteristics	Symbols	Rating	Unit
Optical power	Po	0.5-5.0	mW
Operating Temperature	Top	-10 to +50	°C
Storage Temperature	Tstg	-25 to +75	°C

### ▪ Electrical and Optical Characteristics (Tc=25°C)

Characteristics	Symbols	Min	Typ	Max.	Unit	Condition
Optical Power	Po	0.5	-	5.0	mW	-
Operating Current	Iop	-	35	45	mA	Po=5mW
Operating Voltage	Vop	2.8	3.0	6.0	Volts	Po=5mW
Lasing Wavelength	$\lambda$	840	850	860	nm	Po=5mW
Divergence angle	1.6 mrad					
Spot size	<10.0mm at 10m					
MTTF	>8000 hours @5mW 25°C					