M850-5I

• 850nm 5mW laser module •

Product Description
M850-5I 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.

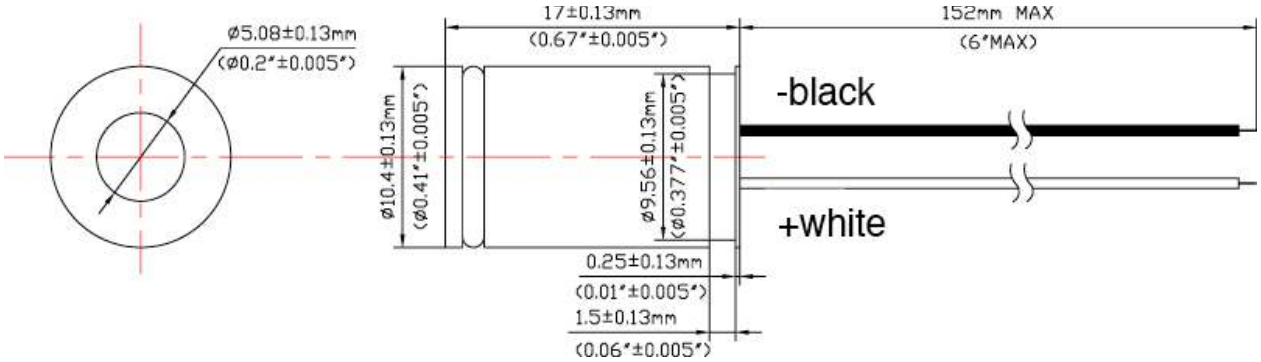
Features
- APC control (Automatic power control)
- Slow start circuit
- Adjustable focus lens
- Aspherical lens
- Package Type:10.4mm x 17.0mm (OD x Length)

▪ Absolute Maximum Rating (Tc=25°C)

Characteristics	Symbols	Rating	Unit
Optical power	Po	5	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	-	4.5	5.0	mW	-
Operating Current	Iop	-	30	40	mA	Po=5mW
Operating Voltage	Vop	3.0	-	3.5	Volts	Po=5mW
Lasing Wavelength	λ	840	850	860	nm	Po=5mW
Divergence angle	1.6 mrad					
Spot size	<10.0mm at 10m					
MTTF	>10000 hours @5mW 25°C					



US Lasers, Inc. 418 B Cloverleaf Drive Baldwin Park, CA 91706
Tel: 1.626.968.7181 Fax: 1.626.934.0161 www.us-lasers.com