

LASER DIODE FAXD-785-1W-FC100

FAXD-785-1W-FC100 is a fiber-coupled multimode semiconductor laser diode with 1W CW output power at 785nm. It comes with internal thermistor, TEC and photodiode and is suitable for the use in various opto-electronic applications.

APPLICATIONS:

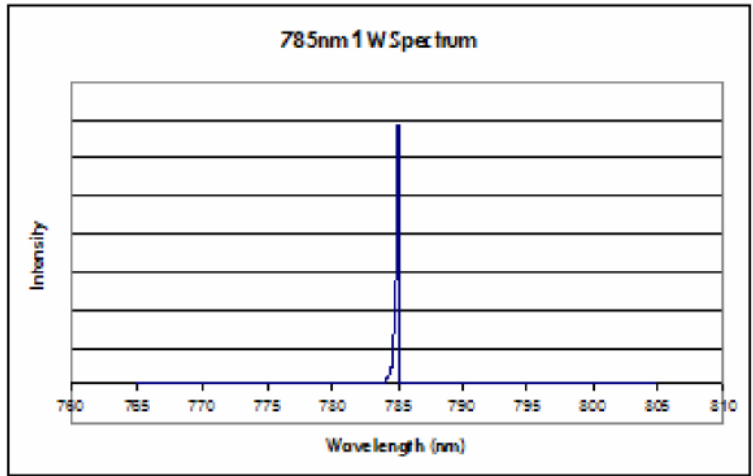
- Raman Spectroscopy
- Laser Pumping
- Laser Therapy

Optical and electrical characteristics (T = 25°C, P = 1W):

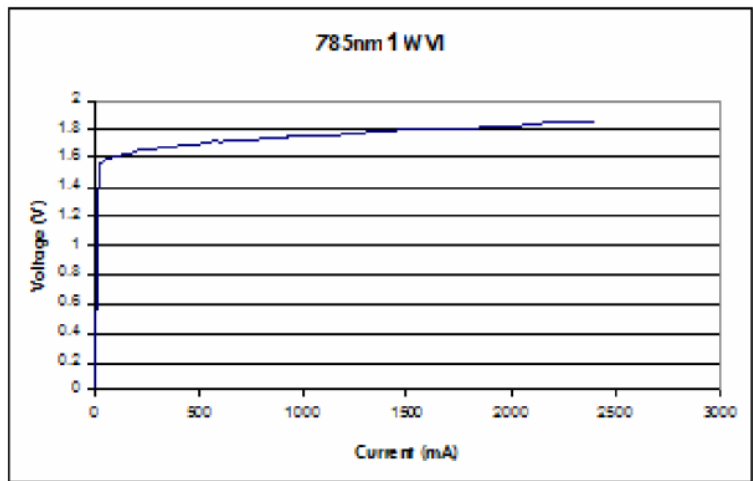
Operating Parameters	Symbol	Min	Typ	Max	Unit
Optical Power	P_{out}	-	1	-	W
Wavelength	λ	780	785	790	nm
Spectrum FWHM	$\Delta\lambda$	-	2	4	nm
Threshold Current	I_{th}	-	400	700	mA
Forward Current	I_f	-	1.5	1.8	A
Forward Voltage	V_f	-	2.1	2.5	V
Slope Efficiency	$\Delta P/\Delta I$	0.8	0.9	-	W/A
TEC Current	I_{TEC}	-	-	2.0	A
TEC Voltage	V_{TEC}	-	-	3.2	V
Fiber Core Diameter	F_{ϕ}	-	100	-	μm
Fiber Connector	F_C	FC/PC (others on request)			
Operating Temperature		-20	25	70	°C
Storage Temperature		-40	-	80	°C
Lifetime	10000 hours				
Lead Solder Temperature	250°C for 5 seconds				

Available Packages: 14-pin Butterfly

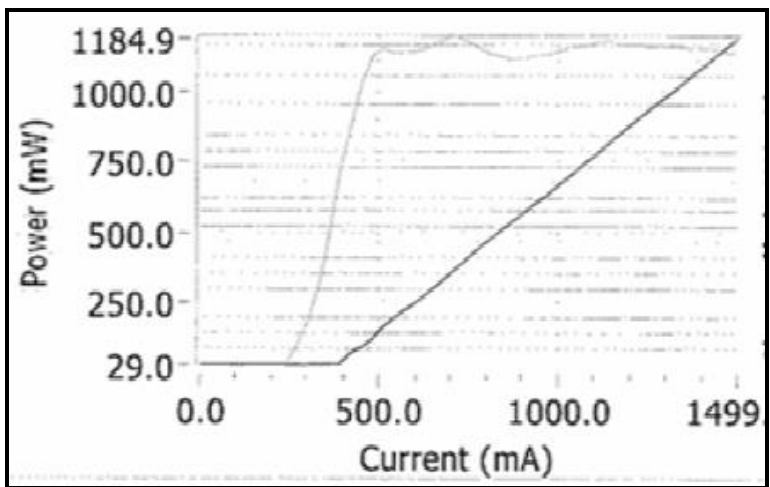
TYPICAL PERFORMANCE



Spectrum



Current vs. Voltage



Current vs. Power