FBLD-635-1.8W-FC105-15Pin

Fiber-coupled High Power Laser Diode

Features:

Wavelength 635nm
CW Output Power 1.8W
Fiber Core Diameter 105µm / NA 0.22
Thermistor / Photodiode / TEC

Specifications	Unit	Min	Typ	Max
Optical Data				
CW Output Power	W	1.8	-	-
Center Wavelength λ	nm	625	635	645
Spectral Width (FWHM)	nm	-	3	-
Temperature Drift of λ	nm/°C	-	0.3	-
Fiber Data				
Core Diameter	µm	-	105	-
Numerical Aperture	NA	-	0.22	-
Cladding Diameter	µm	-	125	-
Buffer Diameter	µm	-	250	-
Fiber Length	m	-	0.7	-
Electrical Data				
Threshold Current	A	-	0.13	-
Operation Current	A	-	-	0.8
Slope Efficiency	W/A	-	9	-
Electrical-to-Optical Efficiency	%	25	-	-
Operation Voltage	V	-	-	30
PD Data				
Current	µA	50	-	500

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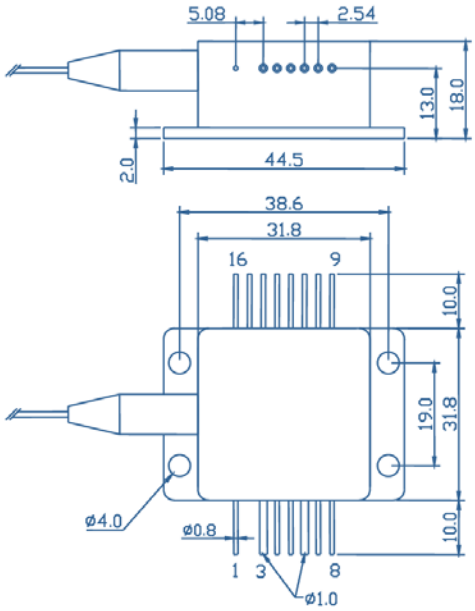
Specifications	Unit	Min	Typ	Max
Temperature Conditions				
Case Operation Temperature	°C	15	-	35
Storage Temperature	°C	-20	-	70
Other Parameters				
ESD	V	-	-	500
Lead Soldering Temperature	°C	-	-	260
Lead Soldering Time	sec	-	-	10
Relative Humidity	%	15	-	75

Package Dimensions (mm)



Pin	Function
1	Case
2	-
3	LD (+)
4	Thermistor
5	Thermistor
6	LD (-)
7	PD (P)
8	PD (N)
9	TEC (-)
10	None
11	None
12	None
13	None
14	None
15	None
16	TEC (+)

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