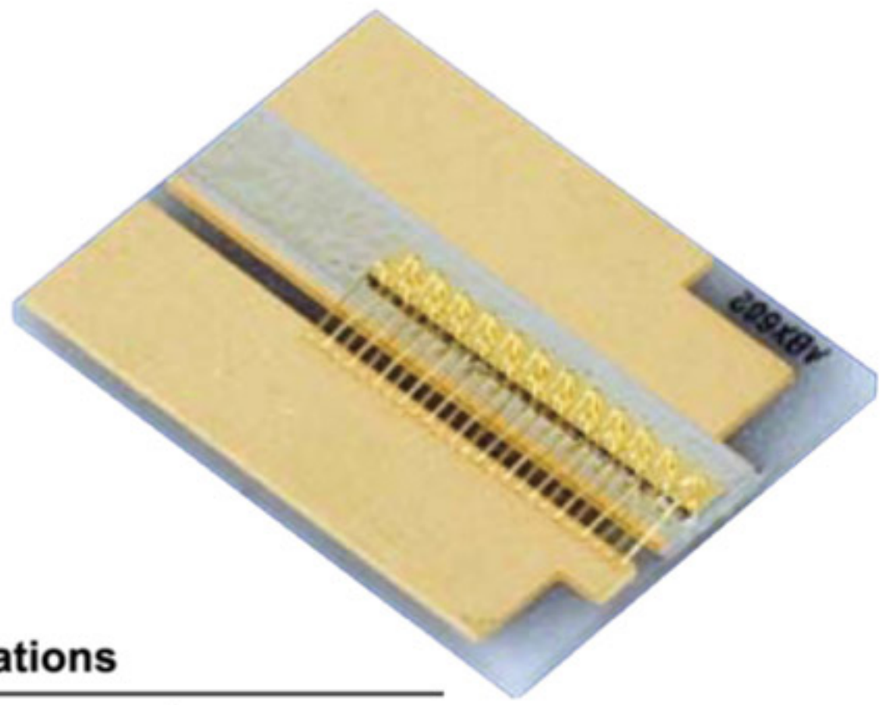
二极体激光器
Diode Laser

JDSU



63系列 二极管激光器

Diode Lasers, High Brightness
10 W, 9xx nm - 63xx Series

Key Features

- 100 µm emitter width
- High-efficiency, MOCVD quantum well design
- High reliability

Applications

- Fiber laser pumping
- Medical/ophthalmic applications
- Beacons/illumination

Electro-optical Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit
Laser Characteristics					
CW output power	P_o	–	–	10	W
Center wavelength and tolerance	λ_c		921 (±10) 945 (±10) 981 (±10)		nm
Spectral width	$\Delta\lambda$	–	3.5	–	nm
Slope efficiency	$\eta d = P_o/(I_{op}-I_{th})$	–	1	–	W/A
Conversion efficiency	$\eta = P_o/(I_{op}V_{op})$	–	55	–	%
Emitting dimensions	W x H	–	100 x 1	–	µm
FWHM beam divergence					
Parallel to junction	$\theta_{//}$	–	8	–	degrees
Perpendicular to junction	$\theta_{\perp}$	–	27	–	degrees
Threshold current	I_{th}	–	0.55	0.8	A
Operating current	I_{op}	–	11	12 A	A
Operating voltage	V_{op}	–	1.8	2.3	V
Series resistance	R_s	–	0.03	–	Ω
Thermal resistance	R_{th}	–	2.5	–	°C/W
Recommended case temperature	T_c	15	–	30	°C
Absolute Maximum and Minimum Ratings					
Reverse voltage	V_r	–	–	2	V
Case operating temperature	T_{op}	-20	–	50	°C
Storage temperature range	T_{stg}	-40	–	80	°C
Lead soldering temperature	T_{ls}	–	–	250 (5 sec.)	°C

* Typical value at 25°C and 0.6 NA collection optics

Part Number	Power	Wavelength	Package
63-00352	10 W	981 (± 10) nm	LX submount
63-00355	10 W	945 (± 10) nm	LX submount
63-00354	10 W	921 (± 10) nm	LX submount

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