980nm high power laser diodes

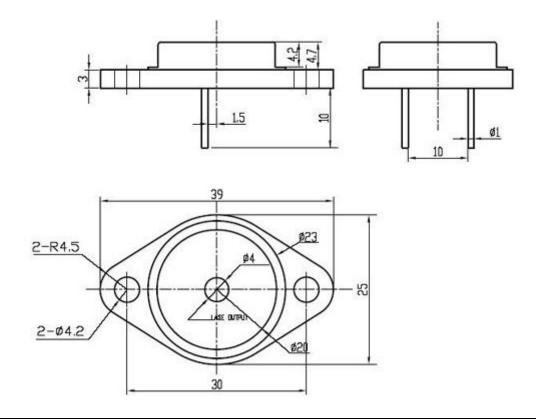
Description

The 980nm high power laser diodes with optimized QW structure made by cboe have a high reliability, high performance. It has several structures of emitter width. The 940nm series high power laser diodes can get 4.0W at RT and CW condition. These products can be applied to solid-state laser pumping sources, medical usage, target designation, and free space optical communication applications.

Features			Applications
• 4.0W CW Output Power			Solid-state Laser Pumping
• Typical 980nm emission wavelength			Medical Usage
• Variety of emitter width: 200µm			Target Designator
• Optimized QW Structure			Free-space Optical Communication
• Package: C-mount & TO	Mount		
Specifications (25°C)	1		
Туре	Unit	LD 940-4W	
Optical Specification	•		
CW Output Power P _o	mW	4	
Operating Mode		CW	
Center Wavelength λ_c	nm	940	
Wavelength Tolerance	nm	±10	
Spectral Width Δλ	nm	≤2.5	
Emitting Area	μm	200×1.5	
Wavelength Temperature Coefficient	nm∕ ℃	0.3	
Beam Divergence $\theta_{\perp} \times \theta_{\#}$	Deg	36×7	
Polarization		TE	
Electrical Specification			
Slope Efficiency E _s	W/A	≥1.03	
Threshold Current I _{th}	А	≤0.35	
Operating Current I _o	Α	≪4.0	
Operating Voltage V _f	v	≤2.3	
Series Resistance R _d	Ω	≤0.2	
Package Style		C-Mount TO-3	
Absolute Maximum Ratin	l 1gs	10-5	
Reverse Voltage V _r	V	2.0	
Operating Temperature T _o	°C	15-25	
Storage Temperature T _{stg}	°C	-10~60	

Package Dimensions

TO-3 Package (Unit:mm)



C-mount Heat Sink (Unit:mm, Heat Sink(+))

