940nm high power laser diodes

Description The 940nm high power laser diodes with optimized QW structure made by cboe have a high reliability, high performance. It has several structures or 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 940nm 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℃) Type Unit LD 940-4W **Optical Specification** CW Output Power Po mW 4 **Operating Mode** CW Center Wavelength λ_c 940 nm Wavelength Tolerance ± 10 nm ≤2.0 Spectral Width $\Delta\lambda$ nm

Polarization TE **Electrical Specification**

μm

nm/

 $^{\circ}$

Deg

200×1.5

0.3

36×7

Slope Efficiency E _s	W/A	≥1.03			
Threshold Current I _{th}	A	≤0.35			
Operating Current I _o	A	≤4.1			
Operating Voltage V _f	V	≤2.3			
Series Resistance R _d	Ω	≤0.2			
Package Style		C-Mount TO-3			
Absolute Maximum Ratin	ngs		 		

Emitting Area

Coefficient

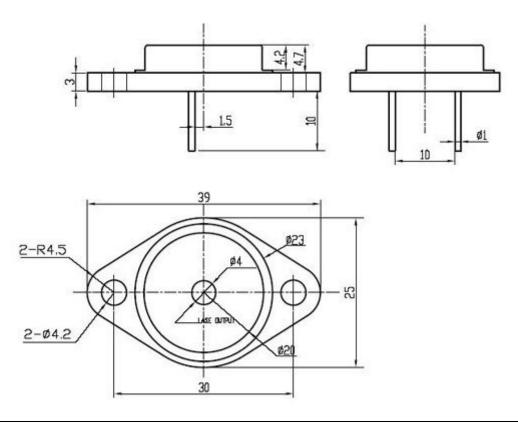
Wavelength Temperature

Beam Divergence θ₁×θ₄

Reverse Voltage V _r	V	2.0			
Operating Temperature T _o	$^{\circ}$ C	15-25			
Storage Temperature T _{stg}	$^{\circ}$ C	-10~60			

Package Dimensions

TO-3 Package (Unit:mm)



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

