

STD-UMB-75-37-808-TE-300-1.5

High-power Diode Laser Bars, 808nm, 300W QCW



Features:

- High electrical-optical conversion efficiency
- High output power
- High reliability
- High brightness

Technical Advantages:

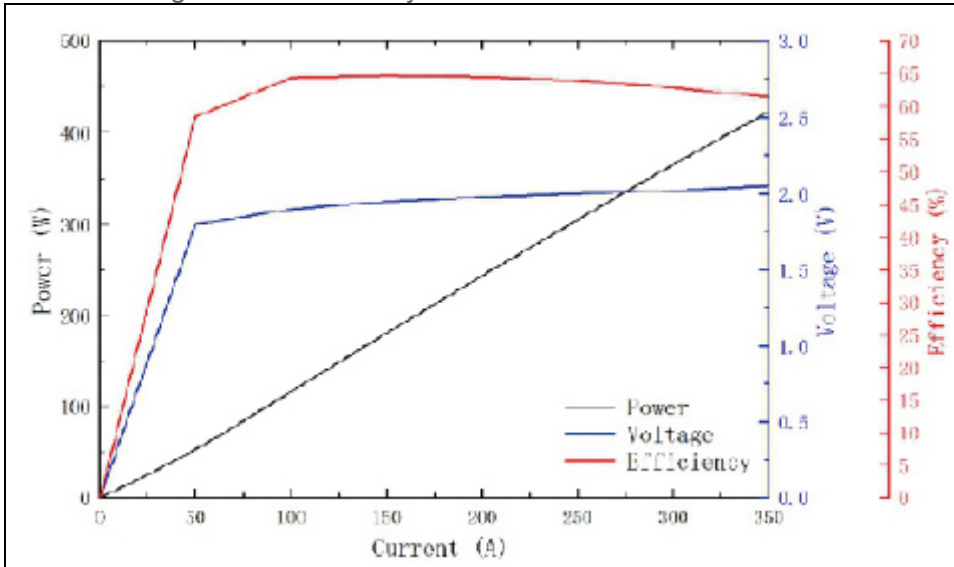
- High efficient epitaxial structure design
- High-quality epitaxial material growth
- Special passivation method for cavity surface

Specifications

	Symbol	Min.	Typical	Max.	Unit
Operation					
Optical output power	P _o		300		W
Wavelength	λ _o	805	808	811	nm
Operation mode			QCW		
Dimensions					
Number of emitters			38		
Emission region width	E.W.		190		um
Emitter pitch	P		250		
Filling factor	F		75		
Cavity length	L	1480	1500	1520	um
Bar width	L	9800	10000	10200	um
Thickness	D	115	120	125	um
Electro-optical parameters					
Electro-optical efficiency	η	60	62		%
Slope efficiency	SE	1.15	1.25		W/A
Threshold efficiency	l _{th}		20	25	A
Operation current	I _{op}		250	260	A
Operation voltage	V _{op}		2	2.1	V
Spectral width FWHM	Δλ		2.5	3	nm
Wavelength shift vs. temp.	Δλ/ΔT		0.3		Nm/°C
Fast divergence angle	θ _⊥		35		Deg
Slow divergence angle	θ _∥		6		Deg

Remark: Tested with MCC packaged products in the CW mode at 25 °C.

Current-Voltage-Power-Efficiency



Spectral Characteristics

