

STD-UMC-230-945-TE-25-5.0

## High-power Diode Laser Bars, 945nm, 25W CW



### Features:

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

### Technical Advantages:

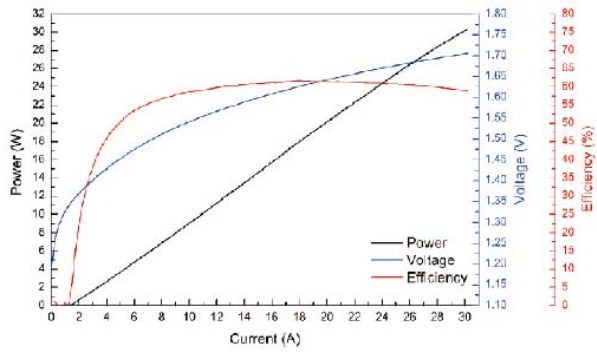
- High power and high efficiency epitaxial design
- High-quality epitaxial material growth
- High brightness structure design
- Special passivation method for cavity surface

### Specifications

	Symbol	Min.	Typical	Max.	Unit
<b>Operation</b>					
Optical output power	P <sub>o</sub>		25		W
Wavelength	λ <sub>o</sub>	935	945	955	nm
Operation mode			CW		
<b>Dimensions</b>					
Emission region width	E.W.	225	230	235	um
Cavity length	L	9985	5000	5005	um
Width	W	395	400	405	um
Thickness	D	140	145	150	um
<b>Electro-optical parameters</b>					
Electro-optical efficiency	η	59	60.5		%
Slope efficiency	SE	1.05	1.1		W/A
Threshold efficiency	l <sub>th</sub>		1.5	1.6	A
Operation current	I <sub>op</sub>		25	26.5	A
Operation voltage	V <sub>op</sub>		1.7	1.8	V
Spectral width FWHM	Δλ		3	3.5	nm
Wavelength shift vs. temp.	Δλ/ΔT		0.35		Nm/°C
Vertical far field divergence angle	θ <sub>⊥</sub>		30.5	32.5	Deg
Horizontal far field divergence angle	θ <sub>∥</sub>		9	9.5	Deg
Polarization	TE	95			%

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

 Power - Current - Voltage - Efficiency



 Spectral Characteristics

