

JDSU 851nm High Power Diode Laser

JDSU Part number 22045504 Rev 1



- Key Features**
- 350mW CW Power
 - 851nm at 25C
 - TO-56 can with elongated cap

Electro-optical Performance (at 350mW CW, 25°C unless otherwise noted; fundamental transverse mode;

and 0.6 NA collection optics)

Laser Characteristics	Symbol	Min.	Typ.	Max.	Unit	Comments
CW Output Power	P_o	350			mW	
Peak Power under Modulation				350	mW	
Center wavelength	λ_o		851		nm	
Wavelength shift with power			0.026		nm/mW	
Slope Efficiency		0.9	1.1		mW/mA	
Power conversion efficiency	PCE		54		%	
Spectrum width (90% intensity)			0.2		nm	
Threshold current	I_{th}		30	50	mA	
Operating current	I_p		355	400	mA	
Operating voltage	V_{op}		1.8	2.2	V	
FWHM Beam Divergence	FWHM					
Parallel to junction	$\Theta_{ }$	6	8	10	deg	
Perpendicular to junction	$\Theta_{\perp}$	15	17.5	21	deg	
FWHM Beam Pointing	FWHM					
Parallel to junction	$d\Theta_{ }$	-2.5	–	2.5	degrees	
Perpendicular to junction	$d\Theta_{\perp}$	-2.5	–	2.5	degrees	
Emission Point Accuracy (from center line pkg)	$\Delta x \Delta y \Delta z$	-50		50	μm	

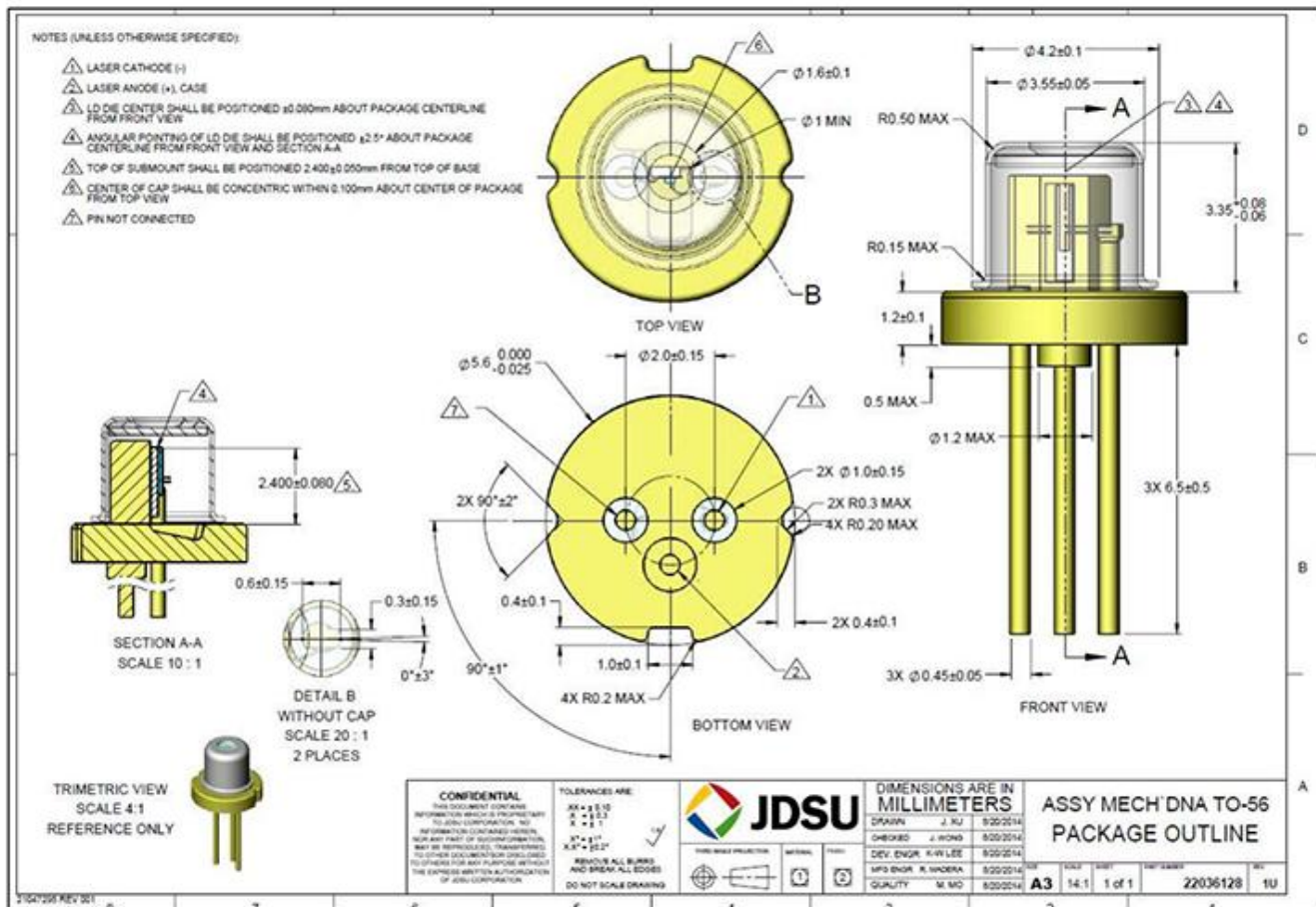


Figure 1: Mechanical Specifications