

350 mW, 854 nm TO-56 Packaged Laser Diode 22045504

Lumentum is the worldwide leader in telecommunications-grade diode lasers used in the most demanding applications such as undersea, space, and high-data-rate systems. These lasers must operate with very low or even zero failure rates. Lumentum has applied their experience making and qualifying high-reliability semiconductor lasers to 8xx nm diode lasers, which have field-demonstrated high reliability.

Key Features

- 350 mW optical power
- 854 nm CWL
- +/-5 nm WL tolerance at 25°C, 350 mW

Specifications

Electro-Optical Performance (at 350 mW CW, 25°C, and 0.6 NA collection optics

Laser Characteristics	Symbol	Minimum	Typical	Maximum	Unit
CW output power	Po		350		mW
Center wavelength	λ _{25C}	849	854	859	nm
Spectrum width (90% intensity)				0.5	nm
Threshold current	I _{th}		34	50	mA
Slope efficiency	S _{eff}		1.1		W/A
Operating current	I _{op}		380	430	mA
Operating voltage	V _{op}		1.8		V
FWHM beam divergence					
Parallel to junction Perpendicular to junction	Θ,,		8		deg
	Θ		17		deg
FWHM beam pointing					
Parallel to junction Perpendicular to junction	d⊖ _{//}	-2.5		2.5	deg
	d⊖ _L	-2.5		2.5	deg
Absolute Maximum Ratings (AMR)					
Max CW output power		-	-	450	mW
Operating temperature		-10°C	-	60	°C
Storage temperature		-40°C	-	85	°C
Reverse voltage, Laser		-	-	2	V
Reverse voltage, PD		-	-	30	V

Mechanical Specifications

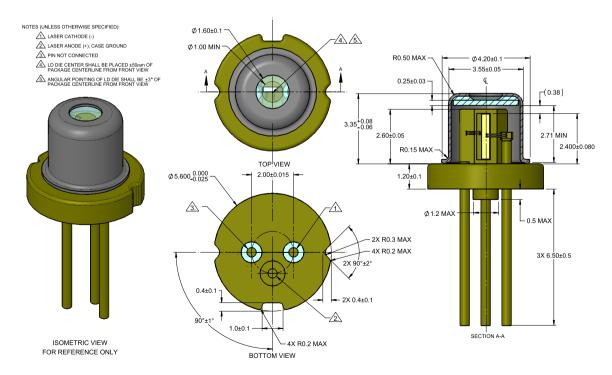


Figure 1: Mechanical specifications

Ordering Information

For more information on this or other products and their availability, please contact your local Lumentum account manager or Lumentum directly at 844-810-LITE (5483) in North America and 800-000-LITE (5483) worldwide or via e-mail at customer.service@lumentum.com.

Product Number	Description	
22045504	350 mW Optical Power 854 nm TO-56 Packaged Diode Laser	



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