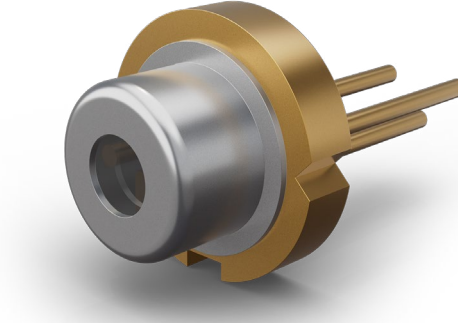


HIGH POWER PULSED LASER DIODES 905D1S3J1.5UA-SERIES

Laser Diodes



FEATURES

- / High volume low cost
- / Proven high reliability structure
- / Excellent temperature stability
- / Hermetic and custom designed package

APPLICATIONS

- / Range finding
- / Surveying equipment
- / Weapons simulation
- / Laser radar
- / Ceilometer
- / Optical trigger
- / Medical

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SPECIFICATIONS

Generic Optical Characteristics at $t_{RT} = 25\text{ °C}$

	Min	Typ	Max
Wavelength of peak radiant intensity λ [nm]	895	905	915
Spectral bandwidth $\Delta\lambda$ at 50% intensity points [nm]		8	
Wavelength temperature coefficient [nm/°C]		0.28	
Beam spread (50 % peak intensity) [°] Parallel to junction plane $\parallel$ Perpendicular to junction plane $\perp$		24 12	

Optical Characteristics at 21 °C

Parameter	905D1S3J1.5UA
P_o (typ.) @ 6 A [W]	16
P_o (min.) @ 6 A [W]	14
Emitting area [μm]	50x10
I_{TH} (typ.) [mA]	100

Absolute Maximum Ratings

Maximum Ratings	Limiting Values
Peak reverse voltage [V]	6
Max. Peak forward current I_{FM} [A]	6
Duty factor [%]	0.1
Temperature [°C] Storage Operating	-55 to +100 -45 to +85
Lead soldering [°C] 5 seconds max. at	200

Additional Specifications

V_f at 3.5 A (estimated) 7.05 V

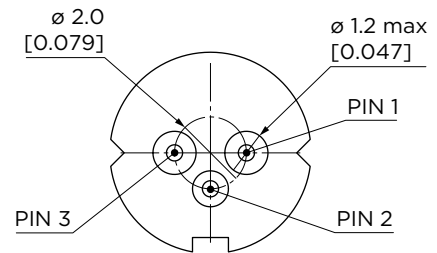
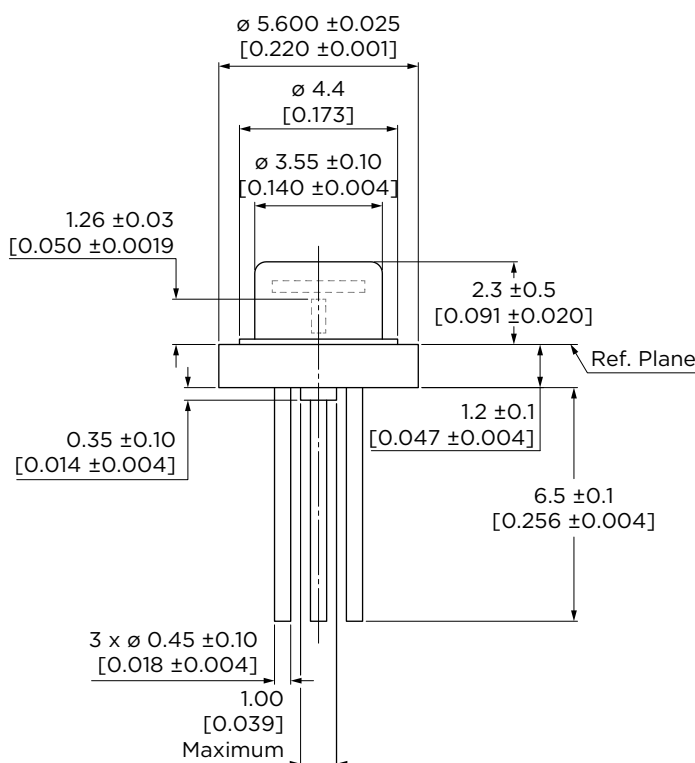
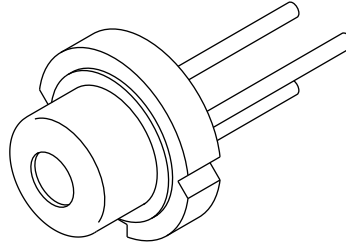
LASER DIODES

High Power Pulsed Laser Diodes 905D1S3J1.5UA-Series

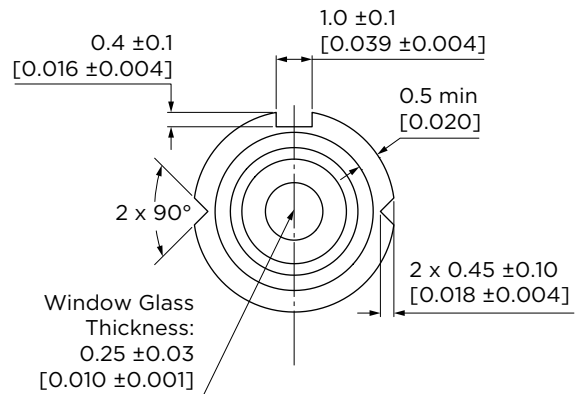


TECHNICAL DRAWING

Package UA 5.6 mm CD



REAR VIEW



Package UA 5.6 mm CD

Pin out:

1. LD Anode (+)
2. LD Cathode (-) Case
3. NC

Case Inductance 5.0 nH

Units: mm [inch]

Dimensions are in millimeters - [inches] and are for reference only.

LASER DIODES

High Power Pulsed Laser Diodes 905D1S3J1.5UA-Series



ORDERING CODE

Wavelength	Tolerance	Device Type	Contact Stripe Width [μm]	Package Style
905	D	1S	XX	UA
905 = 905 nm	D ± 10 nm	1SXJ = Multi junction	03 = 75 μm 01 = 25 μm etc.	UA = 5.6 mm CD package

PRODUCT CHANGES

LASER COMPONENTS reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed as a result of their use or application.

ORDERING INFORMATION

Products can be ordered directly from LASER COMPONENTS or its representatives.
For a complete listing of representatives, visit our website at www.lasercomponents.com
Custom designed products are available on request.

LASER SAFETY

Personal Hazard

Depending on the mode of operation, these devices emit highly concentrated non visible infrared light which can be hazardous to the human eye. Products which incorporate these devices have to follow the safety precautions given in IEC 60825-1 »Safety of laser products«.

Handling Precautions

Products are subject to the risks normally associated with sensitive electronic devices including static discharge, transients, and overload.



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