



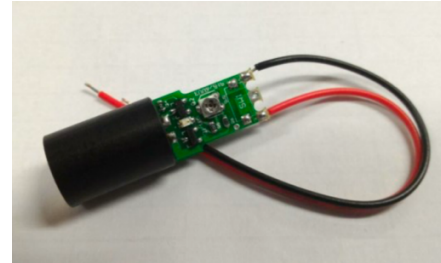
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# Diode Assembly Specifications

## GENERAL:

### Z-Bolt SD-5B-LT-DOT

<b>Part Number</b>	<b>SD-5B-LT-DOT</b>
Color	515nm Green
Units per Sale Package	5 pieces
Output Type [Dot / Line]	Dot



## LASER DIODE:

Wavelength	515nm
Output Power	Certified 4.0 ~ 5.0mW
FDA Class / ANSI Class	Class IIIa / 3R
Factory Power Report	Included
MTTF	>5000hr
Beam Mode	TEM <sub>00</sub>
Beam Diameter	2.0mm at aperture
Beam Divergence	< 1.2 mrad

## LASER PACKAGE:

Housing / Case Material	Aluminum
Diode Circuit Type	Single Transverse Mode Semiconductor
Operation Mode	Continuous Wave

## POWER:

Input Voltage	3 ~ 5V DC
Electrical Connections	100mm leads, red / black
Circuit Polarity	Case "Isolated"
Operating Current	< 300 mA @ 3V ~ 5

## DIMENSIONS & WEIGHT:

Outside Diameter	12mm +/-0.1mm
Diode Case Length	17.5mm +/-0.5mm (no circuit)
Diode Case Length (pcb & brass casing)	35.5mm +/-0.5mm

## ENVIRONMENT

LOW Temperature Operation	-10C° ~ +50C°
Power Stability @ 30 min.	< +/- 3% (constant temp) < +/-5% (over operating temp)

## DIAGRAM

