

# GREEN LASER DIODE



## SDL-520-1000-911E

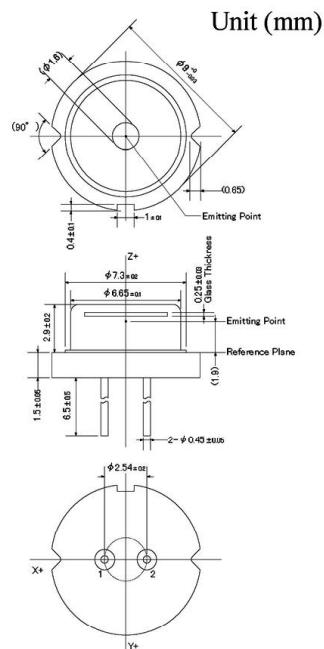
### Features

**Wavelength: 520nm (Typ.)**

**Optical power: Po = 1000mW (Typ.)**

**Package: Ø9mm (RoHS compliant)**

### Package



### Applications

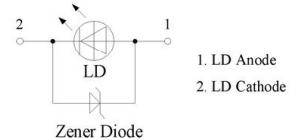
**Industrial Applications**

### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Optical Output	Po	<b>1000</b>	mW
Reverse Voltage	Vr	<b>5</b>	V
Operating Temperature	Top	0~+50	°C
Storage Temperature	Tstg	-40~+85	°C

\* Case Temperature

### Pin Connection



This model does not have Photo Diode.  
This model has a Zener Diode built in  
as a protection circuit against static  
electricity.

### Electrical and Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	Ith	-	-	<b>300</b>	-	mA
Operating Current	Iop	-	-	-	<b>1800</b>	mA
Operating Voltage	Vop	-	-	<b>4.6</b>	-	Volt
Slope Efficiency	$\eta$	If=1.5A	-	<b>0.83</b>	-	mW/mA
LD Reverse Voltage		-	-	-	-	V
Beam Divergence (FWHM)	Parallel	$\theta_{\parallel}$	If=1.5A	<b>5</b>	<b>11</b>	deg.
	Perpendicular	$\theta_{\perp}$	If=1.5A	<b>35</b>	<b>46</b>	deg.
Lasing Wavelength	$\lambda$		<b>510</b>	<b>520</b>	<b>525</b>	nm
Beam Diameter (Perpendicular)	$\Delta\theta_{\perp}$		<b>-5</b>	-	<b>+5</b>	deg.
Monitor Current	Im		-	-	-	mA

\* Angle at 50% peak intensity (full-width at half-maximum)

Note: The above specification is subject to change without notice