

# RED LASER DIODE

## DL-7147-261

## Tentative

# SANYO

Ver.1 Aug. 2006

### Features

- wavelength : 658 nm (Typ.)
- High output power :80 mW at 60°C (CW)
- Threshold current : I<sub>th</sub> =50 mA (Typ.)
- Package : ø5.6 mm
- TE mode

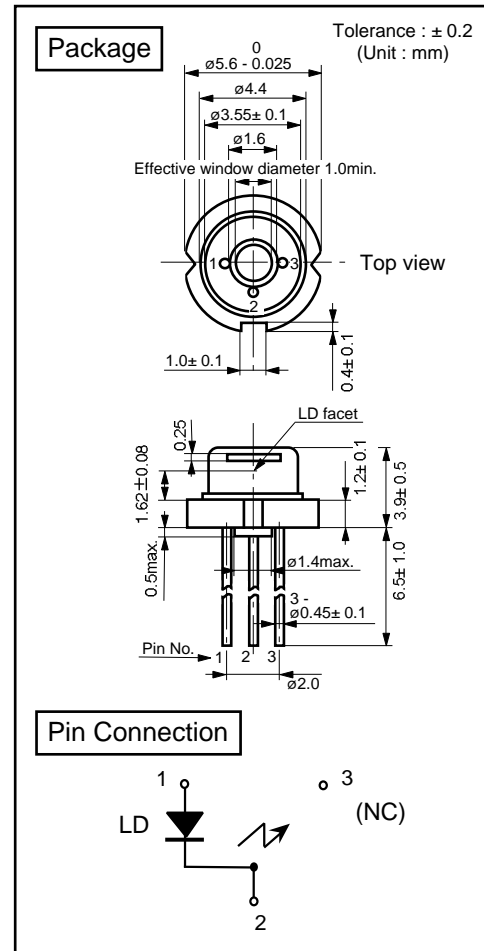
### Applications

- Industrial equipment

### Absolute Maximum Ratings

(T<sub>c</sub>=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P <sub>o</sub> (CW)	80	mW
Reverse Voltage	Laser	V <sub>R</sub>	2	V
Operating Temperature		T <sub>opr</sub>	-10 to +60	°C
Storage Temperature		T <sub>stg</sub>	-40 to +85	°C



### Electrical and Optical Characteristics <sup>3) 4)</sup>

(T<sub>c</sub>=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I <sub>th</sub>	CW	-	50	80	mA
Operating Current		I <sub>op</sub>	P <sub>o</sub> =80mW	-	130	160	mA
Operating Voltage		V <sub>op</sub>	P <sub>o</sub> =80mW	-	2.6	3.0	V
Lasing Wavelength		L <sub>p</sub>	P <sub>o</sub> =80mW	652	658	664	nm
Beam <sup>3)</sup> Divergence	Perpendicular	Q <sub>v</sub>	P <sub>o</sub> =80mW	15	17	20	°
	Parallel	Q <sub>h</sub>	P <sub>o</sub> =80mW	7	9.5	12	°
Off Axis Angle	Perpendicular	dQ <sub>v</sub>	-	-3	-	3	°
	Parallel	dQ <sub>h</sub>	-	-3	-	3	°
Differential Efficiency		SE	-	-	1.0	-	mW/mA

3) Initial values 4) All the above values are evaluated with Tottori Sanyo's measuring apparatus

5) Full angle at half maximum

Note : The above product specification are subject to change without notice.

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