

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_{th} =50 mA (Typ.)
- Package : ø5.6 mm
- TE mode

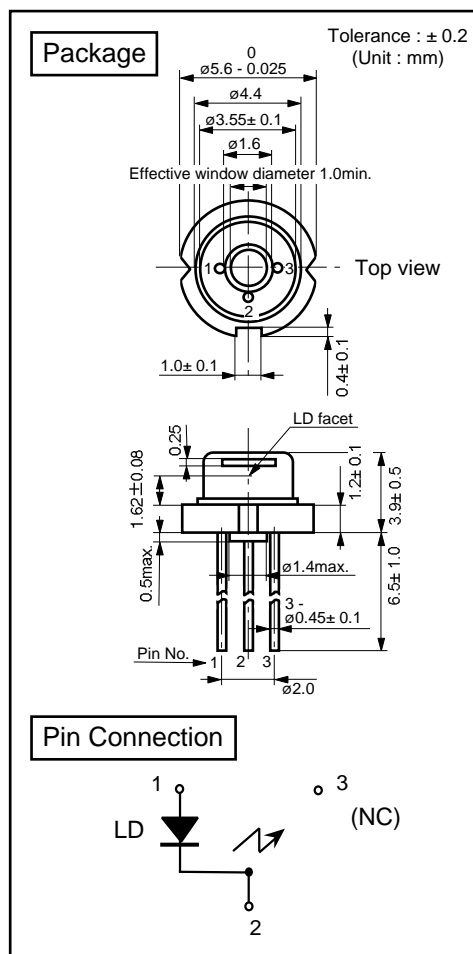
Applications

- Industrial equipment

Absolute Maximum Ratings

(T_c=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P _o (CW)	80	mW
Reverse Voltage	Laser	V _R	2	V
Operating Temperature		T _{opr}	-10 to +60	°C
Storage Temperature		T _{stg}	-40 to +85	°C



Electrical and Optical Characteristics ^{3) 4)}

(T_c=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I _{th}	CW	-	50	80	mA
Operating Current		I _{op}	P _o =80mW	-	130	160	mA
Operating Voltage		V _{op}	P _o =80mW	-	2.6	3.0	V
Lasing Wavelength		L _p	P _o =80mW	652	658	664	nm
Beam ³⁾ Divergence	Perpendicular	Q _v	P _o =80mW	15	17	20	°
	Parallel	Q _h	P _o =80mW	7	9.5	12	°
Off Axis Angle	Perpendicular	dQ _v	-	-3	-	3	°
	Parallel	dQ _h	-	-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.