

RED LASER DIODE

DL-3357-165

SANYO

Ver.2 Oct. 2002

Features

- Wavelength : 655 nm (Typ.)
- threshold current : $I_{th} = 20$ mA (Typ.)
- Ultra-smoll package : $\phi 3.3$ mm

Applications

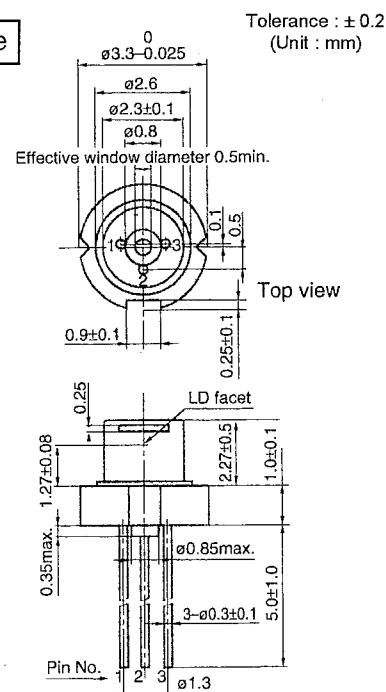
- DVD-ROM/PLAYER

Absolute Maximum Ratings

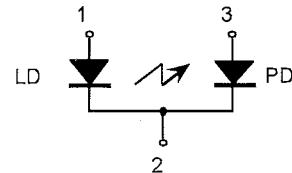
($T_c=25^\circ\text{C}$)

Parameter	Symbol	Ratings	Unit
Light Output	CW	P_o	7 mW
Reverse Voltage	Laser	2	V
	PD	5	
Operating Temperature	T_{opr}	-10 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

Package



Pin Connection



Electrical and Optical Characteristics

1) 2)

($T_c=25^\circ\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current	I_{th}	CW	-	20	35	mA
Operating Current	I_{op}	$P_o=5\text{mW}$	-	30	50	mA
Operating Voltage	V_{op}	$P_o=5\text{mW}$	-	2.2	2.6	V
Lasing Wavelength	λ_p	$P_o=5\text{mW}$	650	655	660	nm
Beam Divergence ¹⁾	Perpendicular	$P_o=5\text{mW}$	25	30	35	°
	Parallel	$P_o=5\text{mW}$	7	8.5	10	°
Off Axis Angle	Perpendicular	$P_o=5\text{mW}$	-	-	± 2	°
	Parallel	$P_o=5\text{mW}$	-	-	± 2	°
Differential Efficiency	dP_o/dI_{op}	-	0.3	0.5	0.8	mW/mA
Monitoring Output Current	I_m	$P_o=5\text{mW}$	0.08	0.2	0.4	mA

1) Initial values 2) All the above values are evaluated with Tottori Sanyo's measuring apparatus

3) Full angle at half maximum

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