

RED LASER DIODE

DL-3357-165

SANYO

Ver.2 Oct. 2002

Features

- Wavelength : 655 nm (Typ.)
- threshold current : $I_{th} = 20$ mA (Typ.)
- Ultra-small 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	VR	2	V
	PD		5	
Operating Temperature		T_{opr}	-10 to +70	$^\circ\text{C}$
Storage Temperature		T_{stg}	-40 to +85	$^\circ\text{C}$

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	Perpendicular	Q_v	$P_o=5\text{mW}$	25	30	35	$^\circ$
	Parallel	Q_h	$P_o=5\text{mW}$	7	8.5	10	$^\circ$
Off Axis Angle	Perpendicular	dQ_v	-	-	-	± 2	$^\circ$
	Parallel	dQ_h	-	-	-	± 2	$^\circ$
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.

