

Sanyo DL7140-201 $\lambda=785\text{nm}$ $P=70\text{mW}$

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

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P_o	80mW
LD Reverse Voltage	$V_{R(LD)}$	2
PD Reverse Voltage	$V_{R(PD)}$	15
Operation Case Temperature	T_{opr}	-10 to 60°C
Storage Temperature	T_{stg}	-40 to 85°C

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

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.
Threshold Current	I_{th}		-	30mA	50mA
Operation Current	I_{op}	$P_o=70\text{mW}$	-	100mA	140mA
Lasing Wavelength	λ_p	$P_o=70\text{mW}$	780nm	785nm	800nm
Beam Divergence (FWHM)	$\theta_{ }$	$P_o=70\text{mW}$	5.5°	7.0°	8.0°
Beam Divergence (FWHM)	$\theta_{\perp}$	$P_o=70\text{mW}$	15°	17°	20°
Off Axis Angle Perpendicular	$\Delta\theta_{\perp}$	-	-	-	$\pm 3^\circ$
Off Axis Angle Parallel	$\Delta\theta_{ }$	-	-	-	$\pm 3^\circ$
Differential Efficiency	dP_o/dI_{op}	-	0.60	1.00	1.40
Monitor Current	I_m	$P_o=70\text{mW}$	0.1mA	0.25mA	0.60
Astigmatism	A_s	$P_o=70\text{mW}$	-	10	-

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