

# Sanyo DL7140-2011 = 785nm P=70mW

## MAXIMUM RATINGS (T<sub>c</sub>=25°C )

CHARACTERISTIC	SYMBOL	RATING
Optical Output Power (CW)	P <sub>o</sub>	80mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2
PD Reverse Voltage	V <sub>R(PD)</sub>	15
Operation Case Temperature	T <sub>opr</sub>	-10 to 60°C
Storage Temperature	T <sub>stg</sub>	-40 to 85°C

## OPTICAL ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.
Threshold Current	I <sub>th</sub>		-	30mA	50mA
Operation Current	I <sub>op</sub>	P <sub>o</sub> =70mW	-	100mA	140mA
Lasing Wavelength	λ <sub>p</sub>	P <sub>o</sub> =70mW	780nm	785nm	800nm
Beam Divergence (FWHM)	θ <sub>  </sub>	P <sub>o</sub> =70mW	5.5°	7.0°	8.0°
Beam Divergence (FWHM)	θ <sub>⊥</sub>	P <sub>o</sub> =70mW	15°	17°	20°
Off Axis Angle Perpendicular	Δθ <sub>⊥</sub>	-	-	-	±3°
Off Axis Angle Parallel	Δθ <sub>  </sub>	-	-	-	±3°
Differential Efficiency	dP <sub>o</sub> /dI <sub>op</sub>	-	0.60	1.00	1.40
Monitor Current	I <sub>m</sub>	P <sub>o</sub> =70mW	0.1mA	0.25mA	0.60
Astigmatism	A <sub>s</sub>	P <sub>o</sub> =70mW	-	10	-

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