



## ■ Electro-optical Characteristics<sup>\*1</sup>

(T<sub>c</sub>=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Threshold current		I <sub>th</sub>	–	-	27	35	mA
Operating current		I <sub>op</sub>	P <sub>o</sub> =5mW	-	36	49	mA
Operating voltage		V <sub>op</sub>	P <sub>o</sub> =5mW	-	2.2	2.7	V
Wavelength		λ <sub>p</sub>	P <sub>o</sub> =5mW	640	654	660	nm
*2 Half intensity angle	Parallel	θ//	P <sub>o</sub> =5mW	7	8.5	11	°
	Perpendicular	θ⊥	P <sub>o</sub> =5mW	25	30	35	°
*4 Ripple		R <sub>i</sub>	P <sub>o</sub> =5mW	-20	-	+20	%
Misalignment angle	Parallel	Δθ//	P <sub>o</sub> =5mW	-2	-	+2	°
	Perpendicular	Δθ⊥	P <sub>o</sub> =5mW	-3	-	+3	°
Interference pattern intensity		α	P <sub>o</sub> =5mW	-	-	1	-
Differential efficiency		η <sub>d</sub>	$\frac{4\text{mW}}{I(5\text{mW}) - I(1\text{mW})}$	0.35	0.55	0.84	mW/mA

\*1 Initial value, CW (Continuous Wave) drive

\*2 Angle at 50% peak intensity (full-width at half-maximum)

\*3 Parallel to the junction plane (X-Z plane), Perpendicular to the junction plane (Y-Z plane)

\*4 R<sub>i</sub>=ΔP/P ΔP : the maximum deviation of the far field pattern from its approximate curve P : the peak of the approximate curve

## ■ Electrical Characteristics of Photodiode

(T<sub>c</sub>=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Output current	I <sub>m</sub>	P <sub>o</sub> =5mW, V <sub>rd</sub> =5V	0.06	0.18	0.30	mA
Dark current	I <sub>D</sub>	V <sub>rd</sub> =5V	-	-	150	nA
Terminal capacitance	C <sub>t</sub>	V <sub>rd</sub> =5V, f=1MHz	-	9	-	pF

• Please refer to the chapter "Handling Precautions"

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