

■ Electro-optical Characteristics^{※1}

(T_c=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit	
Threshold current	I _{th}	-	-	35	55	mA	
Operating current	I _{op}	P _o =45mW	-	80	100	mA	
Operating voltage	V _{op}		-	2.6	2.95	V	
Wavelength	λ _p		650	656	660	nm	
Half intensity angle	^{※2※3} Parallel		θ//	6	8	10	°
	^{※2※3} Perpendicular		θ⊥	19	22	25	°
^{※4} Ripple	R _i		-20	-	+20	%	
Misalignment angle	^{※3} Parallel		Δθ//	-2	-	+2	°
	^{※3} Perpendicular		Δθ⊥	-3	-	+3	°
Differential efficiency	η _d		$\frac{35mW}{I(35mW)-I(10mW)}$	0.75	1.0	-	mW/mA
Interference pattern intensity	α		P _o =45mW	-	-	1	-
^{※5} Kink	K-LI	P1=14mW, P2=42mW, P3=70mW	-10	-	+10	%	
Polarization angle	ω	P _o =3mW, NA=0.13	-20	-	+20	°	
Polarization ratio	P _i		20	-	-	-	

^{※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_i=ΔP/P ΔP : the maximum deviation of the far field pattern from its approximate curve P : the peak of the approximate curve

^{※5} Pulse drive (Pulse width : 0.3μs, Duty : 50%)

■ Electrical Characteristics of Photodiode

(T_c=25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Output current	I _m	P _o =45mW, V _{rd} =5V	0.01	-	0.2	mA
Dark current	I _D	V _{rd} =5V	-	-	150	nA
Terminal capacitance	C _t	V _{rd} =5V, f=1MHz	-	3.5	-	pF

• Please refer to the chapter "Handling Precautions"

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