

Z80_8W450B9 Laser Diode

Operating Temperature Ratings (Tc=25°C)

Item	Symbol	Absolut max. Ratings	Unit
Forward Current (Tc=25°C)	If	5000 CW 6000 Pulsed	mA
Allowable Reverse Current (Tc=25°C)	Ir (LD)	25	mA
Storage Temperature	Tstg	-40 ~ +85	°C
Operating Case Temperature	Tc	-10 ~ +50	°C

*Pulse width: 0.1us, Duty: 50%

Optical Characteristics

Item	Condition	Symbol	Min	Typ	Max	Unit
Optical Output Power (CW)	If=5000mA	Po	-	8000	-	mW
Dominant Wavelength	If=4000mA	λ_d	440	450	460	nm
Threshold Current	CW	I _{th}	300	-	450	mA
Operating current	CW	I _{op}	-	4500	5000	mA
Operating Voltage		V _{op}	4.2	-	5.0	V
Beam divergence (1/e ²)	If=4000mA	$\Delta\theta_{//}$	7	10	14	deg.
		$\Delta\theta_{\perp}$	40	50	58	deg.
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