



Specification

Nichia - NUBM44

445nm 5W

Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)

Item	Symbol	Absolut maximum ratings	Unit
Forward current ($T_c=25^\circ\text{C}$)	I_f	5000	mA
Allowable reverse current ($T_c=25^\circ\text{C}$)	$I_r(\text{LD})$	85	mA
Storage temperature	T_{stg}	-40 ~ +85	$^\circ\text{C}$
Operating case temperature	T_c	-10 ~ +50	$^\circ\text{C}$

Optical Characteristics

Item	Condition	Symbol	Min	Typ	Max	Unit
Optical output power (CW)	$I_f=4\text{A}$	P_o	-	5000	-	mW
Dominant wavelength	$I_f=4\text{A}$	λ_d	440	445	450	nm
Threshold current	CW	I_{th}	350	-	500	mA
Operating current	CW	I_{op}	-	4000	-	mA
Operating voltage	$I_f=4\text{A}$	V_{op}	3.7	-	5.0	V
Beam divergence (raw diode beam)	$I_f=4\text{A}$	$\Delta\theta_{//}$	7	20	45	deg.
		$\Delta\theta_{\perp}$	50	65	70	deg.