

HUVL400-5x0B

High Power Ultraviolet LEDs



■ Features

Ultraviolet Light Emitting Diode 400nm
5mm Diameter Clear Epoxy Package
Three Emission Angles Available
Higher Output Power

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

Parameter	Symbol	Rated Value	Unit
Pulsed forward current ($t \leq 10\text{ms}$) Duty cycle 1/10	I_P	100	mA
Forward current	I_{FM}	30	mA
Reverse voltage	V_{RM}	5	V
Operating temperature	T_{opr}	-40 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +100	$^\circ\text{C}$

■ Electro-Optical Characteristics ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Luminous intensity	I_e	$I_F = 20 \text{ mA}$		2800		mcd
HUVL400-510B				2200		
HUVL400-520B				1700		
Output power	P_o	$I_F = 20 \text{ mA}$	1.9	2.2		mW
Forward voltage	V_F	$I_F = 20 \text{ mA}$		3.2	4.0	V
Reverse current	I_R	$V_R = 5 \text{ V}$			10	μA
Peak emission wavelength	λ_p	$I_F = 20 \text{ mA}$	390	400	410	nm
Spectral bandwidth	$\Delta\lambda$	$I_F = 20 \text{ mA}$		20		nm
Half intensity angle	$\theta_{1/2}$	$I_F = 20 \text{ mA}$		± 10		Deg.
HUVL400-510B				± 20		
HUVL400-520B				± 30		

■ Outline Dimensions (mm)

