

ROITHNER LASERTECHNIK

A-1040 WIEN, FLEISCHMANNGASSE 9
 TEL: +43 -1- 586 52 43 FAX: +43 -1- 586 41 43
 e-mail: rlt@mcb.at http://www.roithner.mcb.at

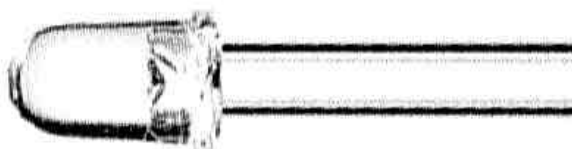
NSPW510S TECHNICAL DATA

WHITE GaN LED

Wavelength: 420 .. 650 nm typ.

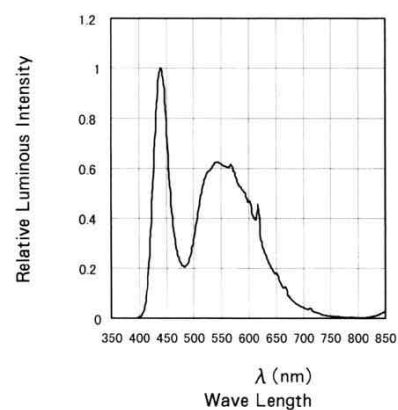
Output power: 2.0 mW, cw

Package: 5 mm clear plastic



Luminous Spectrum

T_a = 25°C, I_F = 20mA



Absolute Maximum Ratings (T_c=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Forward Current	I _F	30	mA
Pulse Forward Current *)	I _{FP}	100	mA
Allowable Reverse Current	I _R	5	mA
Power Dissipation	P _D	120	mW
Operating Temperature	T _{OP}	-20 .. +80	°C
Storage Temperature	T _{STG}	-30 .. +100	°C

*) Pulse width ≤ 10 ms, duty cycle ≤ 0.1

Optical-Electrical Characteristics (T_c = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
DC Forward Voltage	V _F	I _F =20mA	-	3.6	4.0	V
DC Reverse Current	I _R	V _R =5V			50	μA
Optical Output Power	P _O	I _F =20mA	-	2.0	-	mW
Peak Wavelength	λ _P	I _F =20mA	-	440	-	nm
Divergence	θ	I _F =20mA		15		°