

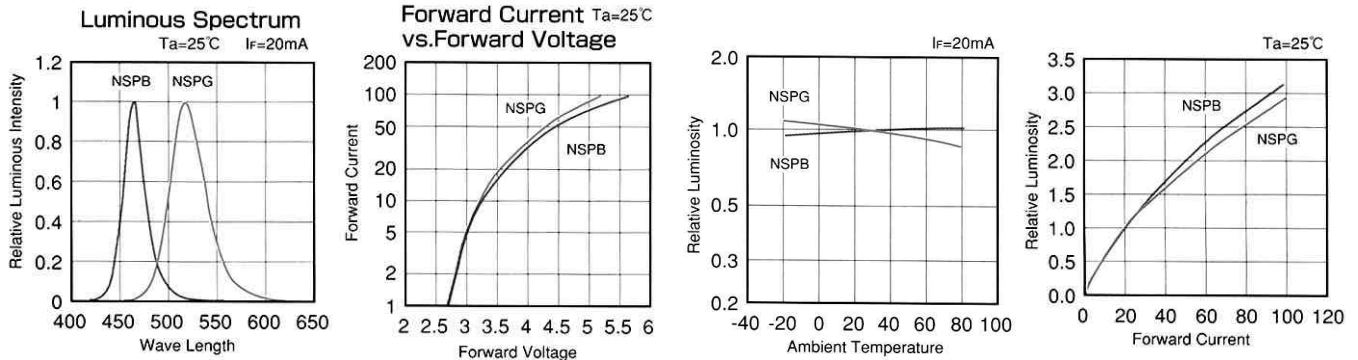
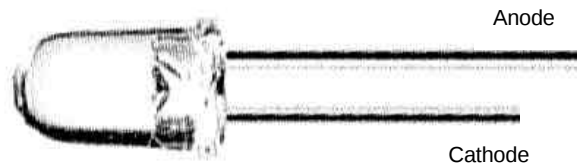
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NSPB500S TECHNICAL DATA

BLUE GaN LED

Peak Wavelength: 470 nm typ.
 Output power: 3.0 mW, cw
 Package: 5 mm clear plastic



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

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	$^\circ\text{C}$
Storage Temperature	T_{STG}	-30 .. +100	$^\circ\text{C}$

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

Optical-Electrical Characteristics ($T_c = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
DC Forward Voltage	V_F	$I_F = 20\text{ mA}$	-	3.6	4.0	V
DC Reverse Current	I_R	$V_R = 5\text{ V}$	-	-	50	μA
Optical Output Power	P_O	$I_F = 20\text{ mA}$	-	3.0	-	mW
Peak Wavelength	λ_P	$I_F = 20\text{ mA}$	-	470	-	nm
Spectrum Half Width	$\Delta\lambda$	$I_F = 20\text{ mA}$	-	30	-	nm
Divergence	θ	$I_F = 20\text{ mA}$	-	15	-	$^\circ$