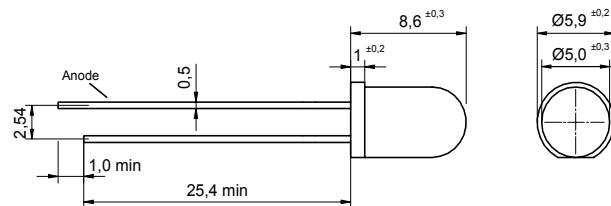


Radiation	Type	Technology	Case
Green	Standard	InGaN/Al <sub>2</sub> O <sub>3</sub>	5 mm plastic lens



## Description

High-power, green LED in standard 5 mm package, high brightness and narrow beam angle, housing without standoff leads

Note: Special packages with standoff available on request

## Applications

#### Illumination, safety equipment, automation

## Absolute Maximum Ratings

at  $T_{\text{amb}} = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		I <sub>F</sub>	50	mA
Peak forward current	t <sub>p</sub> ≤10 μs, f≤500 Hz	I <sub>FM</sub>	100	mA
Power dissipation		P	200	mW
Operating temperature range		T <sub>amb</sub>	-20 to +80	°C
Storage temperature range		T <sub>stg</sub>	-30 to +100	°C
Junction temperature		T <sub>j</sub>	100	°C
Soldering temperature	t ≤ 5 s, 3 mm from case	T <sub>sd</sub>	260	°C

## **Optical and Electrical Characteristics**

$T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	$V_F$		3.5	4.0	V
Reverse voltage	$I_R = 10 \text{ }\mu\text{A}$	$V_R$	5			V
Luminous intensity	$I_F = 20 \text{ mA}$	$I_v$	7000	10000		mcd
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_p$	520	525	530	nm
Dominant wavelength	$I_F = 20 \text{ mA}$	$\lambda_D$		527		nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		40		nm
Viewing angle	$I_F = 20 \text{ mA}$	$\varphi$		15		deg.
Switching time	$I_F = 20 \text{ mA}$	$t_r, t_f$		40		ns

Note: All measurements carried out on *EPIGAP* equipment

We reserve the right to make changes to improve technical design and may do so without further notice.  
Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

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