

Radiation	Type	Technology	Case
Green	Standard	AllnGaN/Al <sub>2</sub> O <sub>3</sub>	TO-39

<p>Pin 1 - Cathode Pin 2 - Anode</p>	<p><b>Description</b></p> <p>High-power green LED-Chip on TO-39 package without covering</p> <p>Note: Special packages without standoff available on request</p> <p><b>Applications</b></p> <p>Customer-specific LED-component</p>
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### Maximum Ratings

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I <sub>F</sub>	100	mA
Peak forward current	(t <sub>p</sub> ≤ 50 μs, t <sub>p</sub> /T = 1/2)	I <sub>FM</sub>	800	mA
Power dissipation		P <sub>D</sub>	300	mW
Operating temperature range		T <sub>amb</sub>	-40 to +110	°C
Storage temperature range		T <sub>stg</sub>	-40 to +110	°C
Junction temperature		T <sub>J</sub>	120	°C

### Optical and Electrical Characteristics

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I <sub>F</sub> = 20 mA	V <sub>F</sub>		2.6	3.3	V
Forward voltage*	I <sub>F</sub> = 100 mA	V <sub>F</sub>		2.9		V
Reverse voltage	I <sub>R</sub> = 10 μA	V <sub>R</sub>	5			V
Radiant power	I <sub>F</sub> = 20 mA	Φ <sub>e</sub>	3.6	5.2		mW
Radiant power*	I <sub>F</sub> = 100 mA	Φ <sub>e</sub>		19.5		mW
Luminous intensity	I <sub>F</sub> = 20 mA	I <sub>v</sub>	340	490		mcd
Luminous intensity*	I <sub>F</sub> = 100 mA	I <sub>v</sub>		1880		mcd
Peak wavelength	I <sub>F</sub> = 100 mA	λ <sub>p</sub>	520	530	540	nm
Dominant wavelength	I <sub>F</sub> = 100 mA	λ <sub>D</sub>		540		nm
Spectral bandwidth at 50%	I <sub>F</sub> = 100 mA	Δλ <sub>0.5</sub>		40		nm
Viewing angle	I <sub>F</sub> = 100 mA	φ		120		deg.
Switching time	I <sub>F</sub> = 100 mA	t <sub>r</sub> , t <sub>f</sub>		45		ns

\*for information only

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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