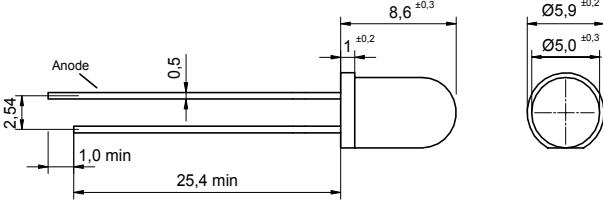


Radiation	Type	Technology	Case
Blue	Standard	InGaN/Al <sub>2</sub> O <sub>3</sub>	5 mm plastic lens

		Description
		High-power, high-speed blue LED in standard 5 mm package, 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<sub>amb</sub> = 25°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<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>		3.5	4.0	V
Reverse voltage	I <sub>R</sub> = 10 µA	V <sub>R</sub>	5			V
Luminous intensity	I <sub>F</sub> = 20 mA	I <sub>v</sub>	2450	3700		mcd
Peak wavelength	I <sub>F</sub> = 20 mA	λ <sub>p</sub>	468	475	480	nm
Spectral bandwidth at 50%	I <sub>F</sub> = 20 mA	Δλ <sub>0.5</sub>		25		nm
Viewing angle	I <sub>F</sub> = 20 mA	φ		15		deg.
Switching time	I <sub>F</sub> = 20 mA	t <sub>r</sub> , t <sub>f</sub>		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.

EPIGAP Optoelektronik GmbH, D-12555 Berlin, Köpenicker Str.325 b, Haus 201

Tel.: +49-30-6576 2543, Fax : +49-30-6576 2545

1 of 1