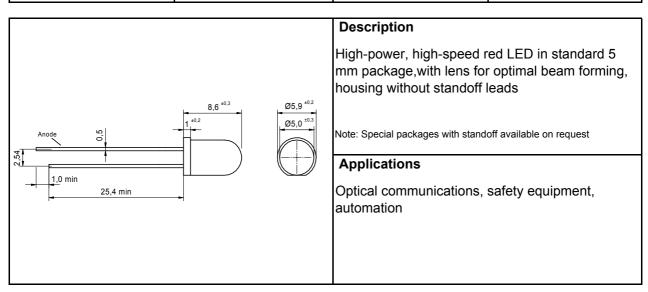
# LED - Lamp

ELD-670-524

discontinued

RadiationTypeTechnologyCaseRedDDHGaAlAs/GaAlAs5 mm plastic lens



### **Maximum Ratings**

 $T_{amb}$  = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I <sub>F</sub>	50	mA
Peak forward current	(t_P $\leq$ 50 µs, t_P /T = 1/2)	I <sub>FM</sub>	100	mA
Power dissipation		P <sub>D</sub>	150	mW
Operating temperature range		$T_{amb}$	-20 to +80	°C
Storage temperature range		T <sub>stg</sub>	-30 to +100	°C
Junction temperature		TJ	100	°C
Soldering temperature	$t \leq$ 5 s, 3 mm from case	$T_{Sd}$	260	°C

## **Optical and Electrical Characteristics**

 $T_{amb}$  = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Тур	Max	Unit
Forward voltage	I <sub>F</sub> = 20 mA	$V_{F}$		1.8	2.2	V
Reverse voltage	I <sub>R</sub> = 10 μΑ	V <sub>R</sub>	5			V
Radiant power	I <sub>F</sub> = 20 mA	$\Phi_{e}$	5.5	8		mW
Radiant power*	I <sub>F</sub> = 50 mA	$\Phi_{e}$		18		mW
Luminous intensity	I <sub>F</sub> = 20 mA	l <sub>v</sub>	550	780		mcd
Luminous intensity	I <sub>F</sub> = 50 mA	l <sub>v</sub>		1500		mcd
Peak wavelength	I <sub>F</sub> = 20 mA	λ <sub>p</sub>	660	670	680	nm
Spectral bandwidth at 50%	I <sub>F</sub> = 20 mA	$\Delta\lambda_{0.5}$		25		nm
Viewing angle	I <sub>F</sub> = 20 mA	φ		20		deg.
Switching time	I <sub>F</sub> = 20 mA	t <sub>r,</sub> t <sub>f</sub>		15		ns

\*measured after 30s current flow

#### Note: All measurements carried out on EPIGAP equipment

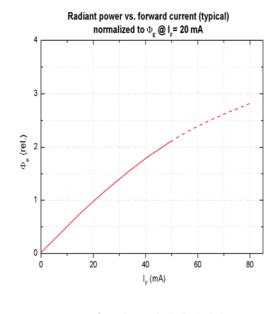
We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications.All operating parameters must be validated for each customer application by the customer.

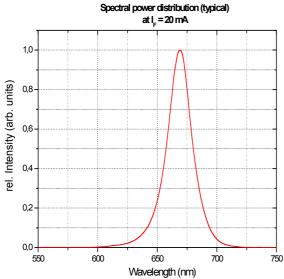
EPIGAP Optoelektronik GmbH, D-12555 Berlin, Köpenicker Str.325 b, Haus 201

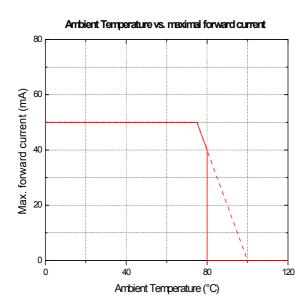
LED - Lamp

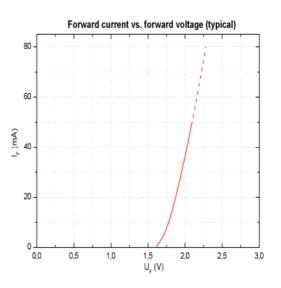
rev. 02

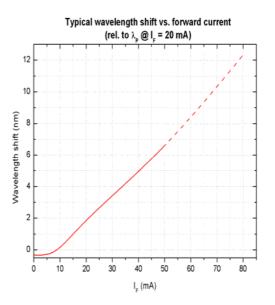
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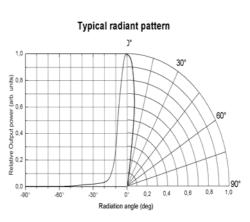












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## LED - Lamp

discontinued

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#### Remarks concerning optical radiation safety\*

At maximum forward current and continuous operation, this LED may be classified as LED product *Class 2*, according to standard IEC 60825-1:A2. *Class 2* products emit in the visible region, damaging exposure is usually prevented through avert reactions including blink reflex. It can be expected that these reactions provide sufficient protection under reasonably predictable conditions. This also implicates a direct observation of the light beam by means of optical instruments.

\*Note: Safety classification of an optical component mainly depends on the intended application and the way the component is being used. Furthermore, all statements made to classification are based on calculations and are only valid for this LED "as it is", and at continuous operation. Using pulsed current or altering the light beam with additional optics may lead to different safety classifications. Therefore these remarks should be taken as recommendation and guideline only.

