

Radiation	Type	Technology	Case
Yellow-green	5 mm	AlInGaP/GaAs	5 mm, plastic lens

	<p>Description</p> <p>Yellow-green 5 mm - LED without standoff leads</p> <p>Note: Special packages with standoff available on request</p>
	<p>Applications</p> <p>Optical communications, illumination, safety equipment, automation</p>

Absolute Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		I _F	50	mA
Peak forward current	t _p ≤ 10 μs, f ≤ 500 Hz	I _{FM}	100	mA
Power dissipation		P	128	mW
Operating temperature range		T _{amb}	-20 to +80	°C
Storage temperature range		T _{stg}	-30 to +100	°C
Junction temperature		T _j	80	°C
Soldering temperature	t ≤ 5 s, 3 mm from case	T _{sd}	260	°C

Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 20 mA	V _F		2.3	2.8	V
Forward voltage*	I _F = 40 mA	V _F		2.5	3.1	V
Reverse voltage	I _R = 10 μA	V _R	5			V
Switching time	I _F = 20 mA	t _r , t _f		35		ns

*for information only

Optical Characteristics

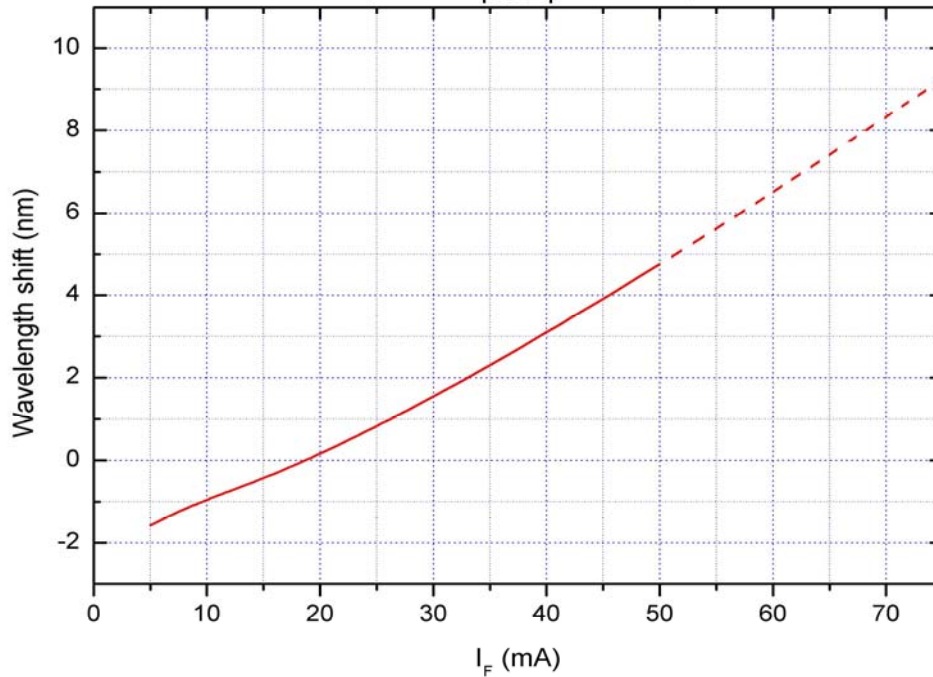
at $T_{amb} = 25^{\circ}C$, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Radiant power	$I_F = 20\text{ mA}$	Φ_e	0,32	0,42		mW
Radiant intensity	$I_F = 20\text{ mA}$	I_e	3,8	5,0		mW/sr
Luminous intensity	$I_F = 20\text{ mA}$	I_v	1650	2150		mcd
Luminous intensity*	$I_F = 40\text{ mA}$	I_v		3600		mcd
Peak wavelength	$I_F = 20\text{ mA}$	λ_p	560	575	580	nm
Spectral bandwidth at 50%	$I_F = 20\text{ mA}$	$\Delta\lambda_{0.5}$		20		nm
Viewing angle	$I_F = 20\text{ mA}$	φ		7		deg

*for information only

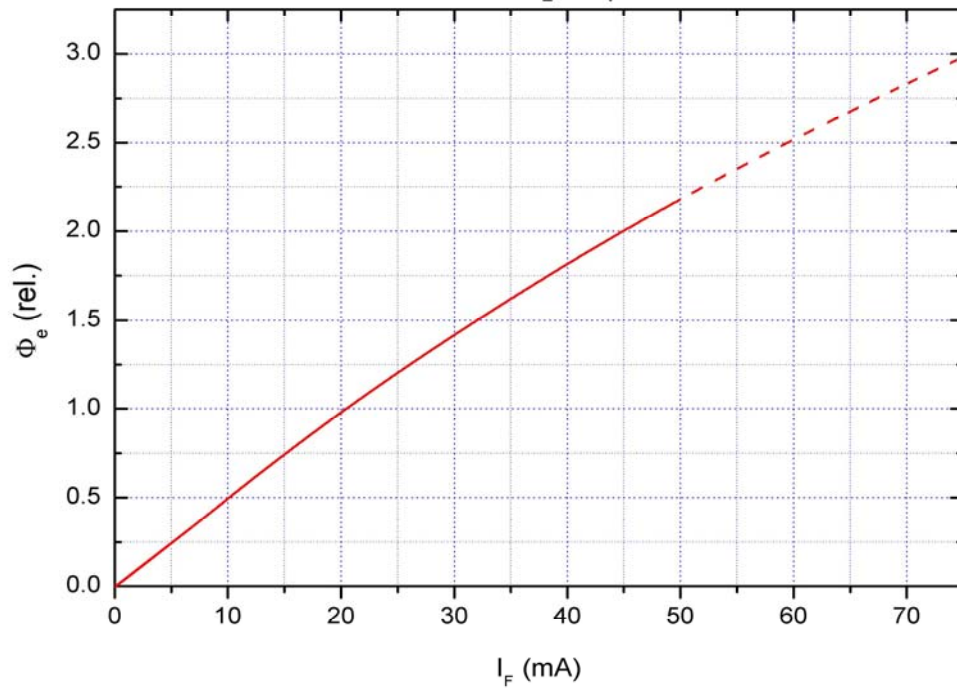
Note: All measurements carried out with *EPIGAP* equipment

**Typical wavelength shift vs. forward current
(rel. to λ_p @ $I_F = 20\text{ mA}$)**

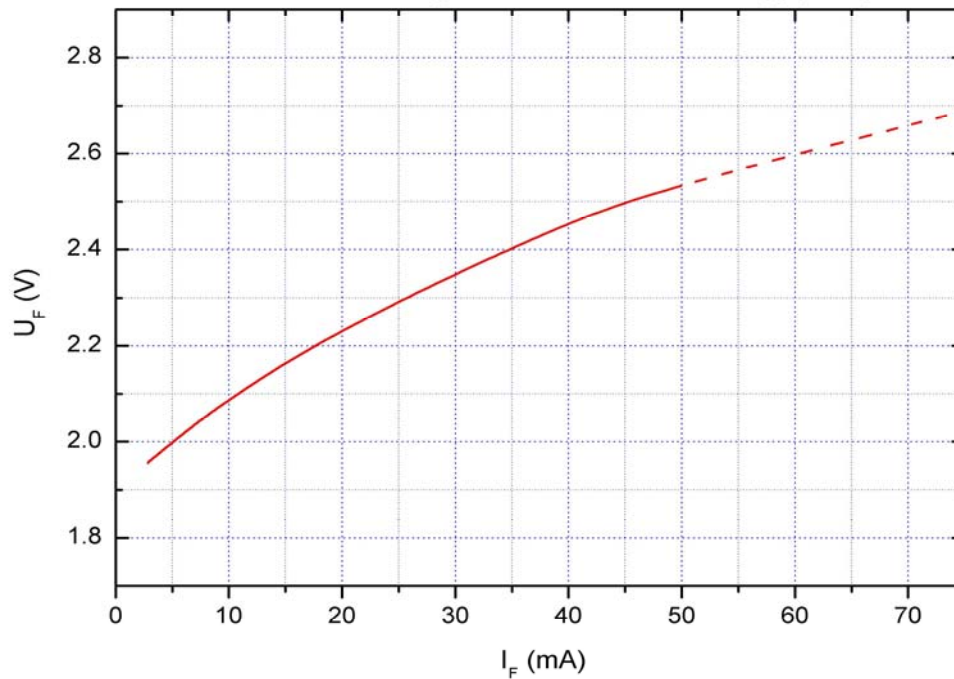


We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.

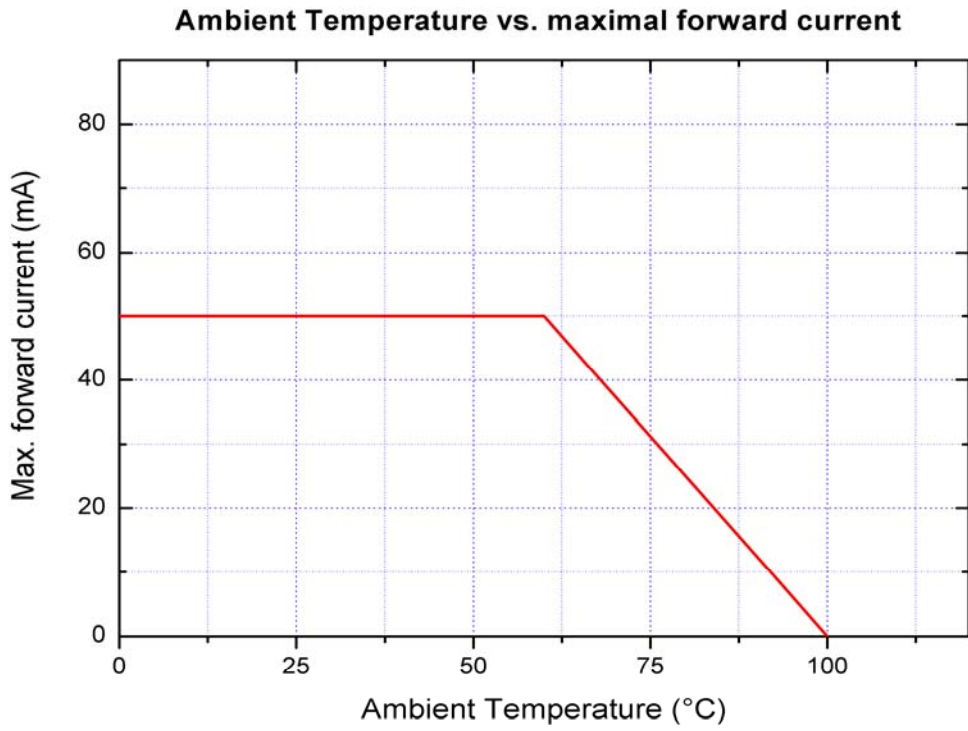
Radiant power vs. forward current (typical)
normalized to $\Phi_E @ I_F = 20 \text{ mA}$



Forward voltage vs. forward current (typical)



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