

Radiation	Type	Technology	Case
Yellow-green	Standard	GaP/GaP	5 mm plastic lens

		Description
		Yellow-green LED in standard 5 mm package, with lens for optimal beam focusing, housing without standoff leads
Note: Special packages with standoff available on request		
Applications		Illumination, safety equipment, automation, optical sensors

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	50	mA
Peak forward current	($t_P \leq 50 \mu\text{s}$, $t_P/T = 1/2$)	I_{FM}	100	mA
Power dissipation		P_D	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	$t \leq 5 \text{ s}$, 3 mm from case	T_{sd}	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		2.2	2.7	V
Forward voltage*	$I_F = 40 \text{ mA}$	V_F		2.4	3.0	V
Reverse voltage	$I_R = 10 \mu\text{A}$	V_F	5			V
Radiant power	$I_F = 20 \text{ mA}$	Φ_e	0,12	0,17		mW
Radiant intensity	$I_F = 20 \text{ mA}$	I_e	0,55	0,70		mW/sr
Luminous intensity	$I_F = 20 \text{ mA}$	I_v	270	350		mcd
Luminous intensity*	$I_F = 40 \text{ mA}$	I_v		700		mcd
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p	560	572	580	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	$I_F = 20 \text{ mA}$	φ		18		deg.
Switching time	$I_F = 20 \text{ mA}$	t_r, t_f			≤ 1	μs

*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.

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