

Radiation	Type	Technology	Case
Infrared	SMD	AlGaAs/AlGaAs	SMD 1206, lens

	<b>Description</b>
	High speed, high power LED in standard SMD package with lens, compact design allows for easy circuit board mounting and assembling of arrays

  

	<b>Applications</b>
	Optical communications, remote control, light barriers, measurement applications and security systems, automation

### Absolute Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
DC forward current		$I_F$	50	mA
Peak forward current	$t_p \leq 100 \mu\text{s}, t_p/T \leq 0.1$	$I_{FM}$	150	mA
Power dissipation		$P$	90	mW
Operating temperature range		$T_{amb}$	-40 to +85	°C
Storage temperature range		$T_{stg}$	-40 to +90	°C

### Electrical and Optical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 50 \text{ mA}$	$V_F$		1,9	2,3	V
Reverse voltage	$I_F = 100 \mu\text{A}$	$V_R$	5			V
Radiant power	$I_F = 50 \text{ mA}$	$\Phi_e$		13		mW
Peak wavelength	$I_F = 50 \text{ mA}$	$\lambda_p$	740	750	760	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		30		nm
Viewing angle	$I_F = 50 \text{ mA}$	$\varphi$		25		deg.
Switching time	$I_F = 50 \text{ mA}$	$t_r, t_f$		40		ns

Note: All measurements carried out with *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