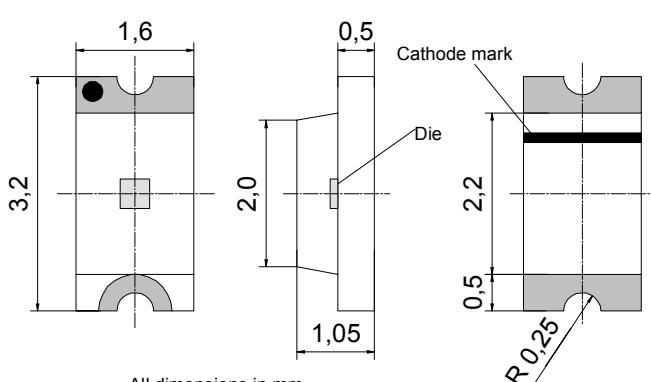


Radiation	Type	Technology	Case
Infrared	SMD	AlGaAs/AlGaAs	SMD 1206

 <p>All dimensions in mm Tolerances: $\pm 0,1$mm</p>	Description High-power, high speed LED in standard SMD package, compact design allows for easy circuit board mounting or assembling of arrays
	Applications Optical communications, remote control and 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	100	mA
Peak forward current	$t_p \leq 10 \mu\text{s}, t_p/T \leq 0.1$	I_{FM}	1000	mA
Power dissipation		P	200	mW
Operating temperature range		T_{amb}	-20 to +85	°C
Storage temperature range		T_{stg}	-30 to +100	°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	$I_F = 20 \text{ mA}$	V_F		1,4	1,7	V
Forward voltage	$I_F = 100 \text{ mA}$	V_F		1,5		V
Reverse voltage	$I_F = 10 \mu\text{A}$	V_R	5			V
Radiant power	$I_F = 100 \text{ mA}$	Φ_e	20	25		mW
Radiant intensity	$I_F = 100 \text{ mA}$	I_e		7,2		mW/sr
Peak wavelength	$I_F = 100 \text{ mA}$	λ_p	850	870	880	nm
Spectral bandwidth at 50%	$I_F = 100 \text{ mA}$	$\Delta\lambda_{0,5}$		40		nm
Viewing angle	$I_F = 100 \text{ mA}$	φ		150		deg.
Switching time	$I_F = 100 \text{ mA}$	t_r, t_f		15		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-1255 Berlin, Köpenicker Str.325 b, Haus 201

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

1 of 1