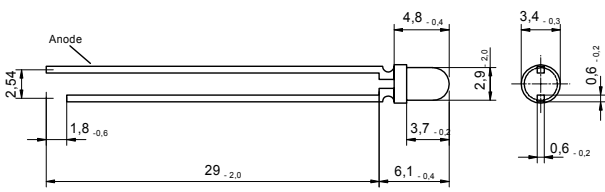


Radiation	Type	Technology	Case
Infrared	DDH	AlGaAs/AlGaAs	3 mm plastic lens

	Description
	<p>High-power, high-speed infrared LED, compact design in standard 3 mm casing, housing without standoff leads</p> <p>Note: Special package with standoff available on request</p>
	Applications
	Optical communications, safety equipment, automation

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	120	mW
Operating temperature range		T_{amb}	-40 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-55 to +100	$^{\circ}\text{C}$
Lead soldering temperature	< 5s, 3.0 mm from case	T_{sol}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage ¹	$I_F = 50 \text{ mA}$	V_F		2,0	2,3	V
Reverse voltage	$I_R = 100 \mu\text{A}$	V_R	5			V
Radiant power ¹	$I_F = 50 \text{ mA}$	Φ_e	7	10		mW
Radiant intensity ¹	$I_F = 50 \text{ mA}$	I_e		50		mW/sr
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p	710	720	730	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		35		nm
Viewing angle	$I_F = 50 \text{ mA}$	φ		25		deg.
Switching time	$I_F = 50 \text{ mA}$	t_r, t_f		40		ns

¹for information only

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

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