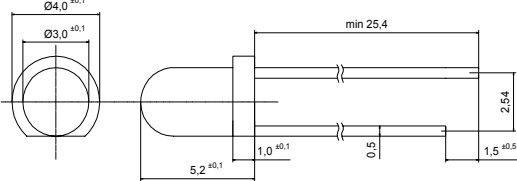


Radiation	Type	Technology	Case
Infrared	DDH	AlGaAs/AlGaAs	3 mm plastic lens

	Description High-power, high-speed infrared LED, compact design in standard 3 mm casing, housing without standoff leads
	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}	500	mA
Power dissipation		P_D	150	mW
Operating temperature range		T_{amb}	-25 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 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		1.9	2.1	V
Reverse voltage	$I_R = 10 \mu\text{A}$	V_R	6			V
Radiant power ¹	$I_F = 50 \text{ mA}$	Φ_e	7	10		mW
Radiant intensity ¹	$I_F = 50 \text{ mA}$	I_e	23	32		mW/sr
Peak wavelength	$I_F = 50 \text{ mA}$	λ_p	690	700	710	nm
Spectral bandwidth at 50%	$I_F = 50 \text{ mA}$	$\Delta\lambda_{0.5}$		33		nm
Viewing angle	$I_F = 50 \text{ mA}$	φ		15		deg.
Switching time	$I_F = 50 \text{ mA}$	t_r, t_f		20/25		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.

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