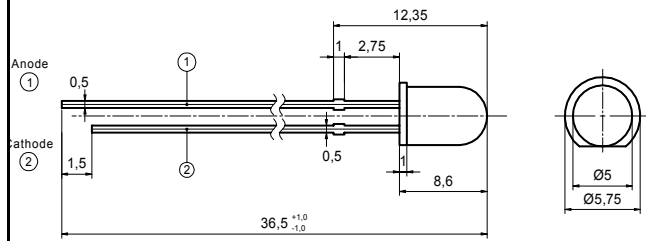


Radiation	Type	Technology	Case
Infrared	DDH	AlGaAs/AlGaAs	5 mm plastic lens

 Side view dimensions: Anode (1) 0,5, Cathode (2) 1,5, 12,35, 2,75, 0,5, 8,6, 36,5 ^{+1,0}/_{-1,0}. Top view dimensions: Ø5, Ø5,75.	Description High-power, high-speed LED in the NIR spectral range, fast switching time, housing with standoff leads Note: Special packages without standoff available on request Applications Optical communications, safety equipment, automation
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Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I_F	100	mA
Peak forward current	$(t_p \leq 50 \mu\text{s}, t_p / T = 1/2)$	I_{FM}	200	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	V_R	5	V
Power dissipation		P_D	280	mW
Operating temperature range		T_{amb}	-20 to +100	$^{\circ}\text{C}$
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	$I_F = 100 \text{ mA}$	V_F		1,5	2,0	V
Radiant power	$I_F = 100 \text{ mA}$	Φ_e	10	30		mW
Radiant intensity	$I_F = 100 \text{ mA}$	I_e	100	140		mW/sr
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p	860	875	890	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		65		nm
Viewing angle	$I_F = 20 \text{ mA}$	φ		10		deg.
Switching time	$I_F = 20 \text{ mA}$	t_r, t_f		10/20		ns

Note: All measurements carried out on *EPIGAP* equipment