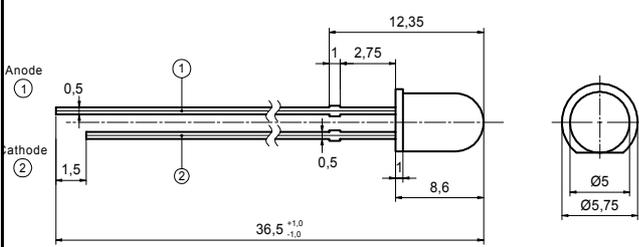


Radiation	Type	Technology	Case
Infrared	DDH	AlGaAs/AlGaAs	5 mm plastic lens

	Description
	<p>High-power, high-speed LED in the NIR spectral range, fast switching time, housing with standoff leads</p> <p>Note: Special packages without 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)		$I_F$	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	$I_F = 100 \text{ mA}$	$\Phi_e$	10	30		mW
Radiant intensity	$I_F = 100 \text{ mA}$	$I_e$	100	140		mW/sr
Peak wavelength	$I_F = 20 \text{ mA}$	$\lambda_p$	860	875	890	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		65		nm
Viewing angle	$I_F = 20 \text{ mA}$	$\varphi$		10		deg.
Switching time	$I_F = 20 \text{ mA}$	$t_r, t_f$		10/20		ns

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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