

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

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

Maximum Ratings

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Value	Unit
Forward current (DC)		I _F	100	mA
Peak forward current	(t _p ≤ 50 μs, t _p /T = 1/2)	I _{FM}	200	mA
Reverse voltage	I _R =10 μA	V _R	5	V
Power dissipation		P _D	280	mW
Operating temperature range		T _{amb}	-20 to +100	°C
Storage temperature range		T _{stg}	-55 to +100	°C
Lead soldering temperature	< 5s, 3.0 mm from case	T _{sol}	260	°C

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 100 mA	V _F		1,5	2,0	V
Radiant power	I _F = 100 mA	Φ _e	10	30		mW
Radiant intensity	I _F = 100 mA	I _e	100	140		mW/sr
Peak wavelength	I _F = 20 mA	λ _p	860	875	890	nm
Spectral bandwidth at 50%	I _F = 20 mA	Δλ _{0,5}		65		nm
Viewing angle	I _F = 20 mA	φ		10		deg.
Switching time	I _F = 20 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.