

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

	<p>Description</p> <p>High-power, high-speed far-red LED in standard 5 mm package, housing with standoff leads</p> <p>Note: Special packages without standoff available on request</p> <p>Applications</p> <p>Optical communications, safety equipment, automation</p>
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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	50	mA
Peak forward current	$(t_p \leq 50 \mu\text{s}, t_p/T = 1/2)$	I_{FM}	150	mA
Power dissipation		P_D	150	mW
Operating temperature range		T_{amb}	-20 to +100	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-55 to +100	$^{\circ}\text{C}$
Junction temperature		T_J	100	$^{\circ}\text{C}$

Optical and Electrical Characteristics

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

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 20 \text{ mA}$	V_F		1,75	2,1	V
Forward voltage*	$I_F = 50 \text{ mA}$	V_F		1,85		V
Reverse voltage	$I_R = 10 \mu\text{A}$	V_R	5			V
Radiant power	$I_F = 20 \text{ mA}$	Φ_e	3,5	4,5		mW
Radiant power*	$I_F = 50 \text{ mA}$	Φ_e		12		mW
Peak wavelength	$I_F = 20 \text{ mA}$	λ_p	680	690	700	nm
Spectral bandwidth at 50%	$I_F = 20 \text{ mA}$	$\Delta\lambda_{0.5}$		25		nm
Viewing angle	$I_F = 20 \text{ mA}$	φ		20		deg.
Switching time	$I_F = 20 \text{ mA}$	t_r, t_f		25		ns

*for 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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