OSA Opto Light GmbH

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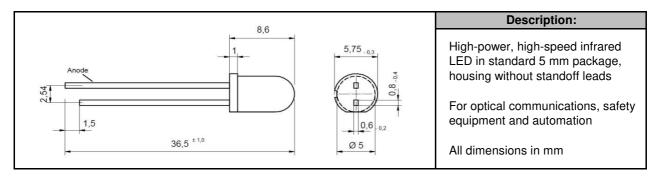
Data sheet

Infrared LED

EOLD-1300-525

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Radiation	Туре	Case	
Infrared	InGaAs/InP, MQW	5 mm plastic lens	



Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	100	mA
Peak forward current	$t_p \le 50 \ \mu s, t_p / T = \frac{1}{2}$	I _{FM}	200	mA
Power dissipation		PD	150	mW
Operating temperature range		T _{amb}	-20 to +80	°C
Storage temperature range		T _{stg}	-55 to +85	°C
Lead soldering temperature	t< 5 s, 3 mm from case	T _{slg}	260	°C

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V _F	I _F = 20 mA		0.85	1	V
Forward voltage	V _F	I _F = 100 mA		0.95		V
Reverse voltage	V _R	I _R = 10 μΑ	5			V
Radiant power	Φ _e	I _F = 20 mA	1.6	2.2		mW
Radiant power	Φ _e	I _F = 100 mA		8.5		mW
Radiant intensity	l _e	I _F = 20 mA		10		mW/sr
Radiant intensity	l _e	I _F = 100 mA		38		mW/sr
Peak wavelength	λ _p	I _F = 20 mA	1250	1300	1350	nm
FWHM	$\Delta \lambda_{0,5}$	I _F = 20 mA		70		nm
Viewing angle	φ	I _F = 20 mA		25		deg.
Switching time	t _r , t _f	I _F = 20 mA		10		ns



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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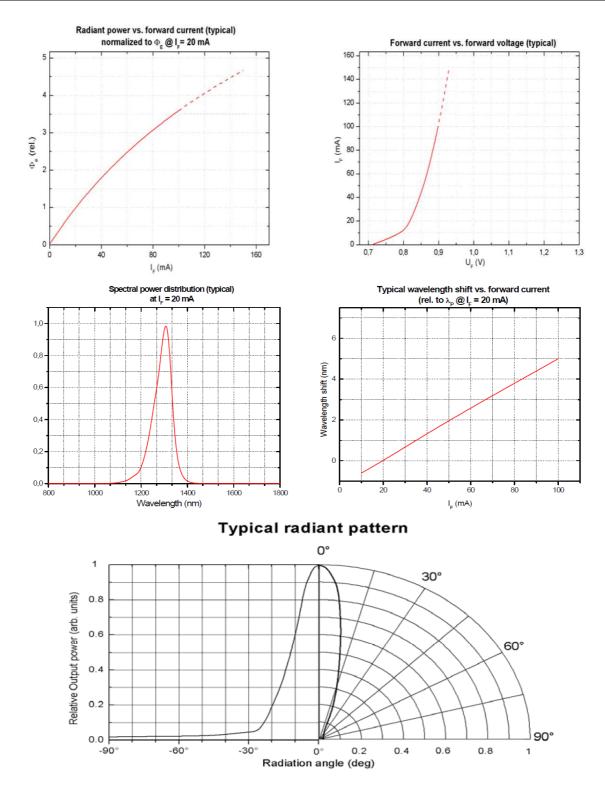


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opto light

Remarks concerning optical radiation safety*

Up to Maximum Forward current, at continuous operation, this LED may be classified as LED product Class 1, according to standard IEC 60825-1:A2. Class 1 products are safe to eyes and skin under reasonably predictable conditions. This implicates a direct observation of the light beam by means of optical instruments.

*Note: Safety classification of an optical component mainly depends on the intended application and the way the component is being used. Furthermore, all statements made to classification are based on calculations and are only valid for this LED "as it is", and at continuous operation. Using pulsed current or altering the light beam with additional optics may lead to different safety classifications. Therefore these remarks should be taken as recommendation and guideline only.

