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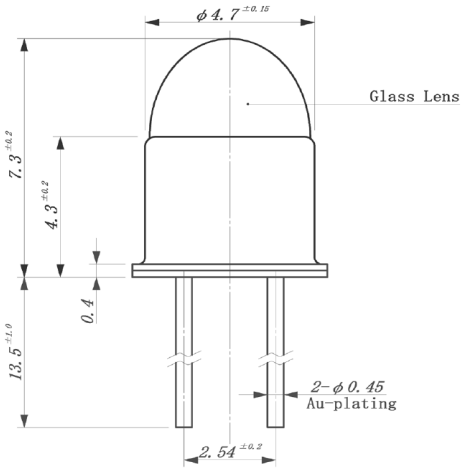
Data sheet

Infrared LED EOLD-1200-015

Rev. 02, 2017

Radiation	Type	Case
Infrared	InGaAs/InP, MQW	TO-46 with glass lens cap



① Cathode ② Anode

Dimensions (Unit:mm)

Description:

High-power, high speed, narrow beam angle, high reliability

Application:

Optical switches, optical communication, safety equipment, automation

Maximum Ratings

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Peak forward current (pulse)	t ≤ 50 µs, T = 100 µs	I_{FM}	200	mA
Reverse voltage	I_R=10 µA	I_{FM}	5	V
Power dissipation		P_D	115	mW
Operating temperature range		T_{amb}	-20 to +85	°C
Storage temperature range		T_{stg}	-30 to +100	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T_{slg}	260	°C
Junction temperature		T_J	100	°C

RoHS COMPLIANT Pb-Free

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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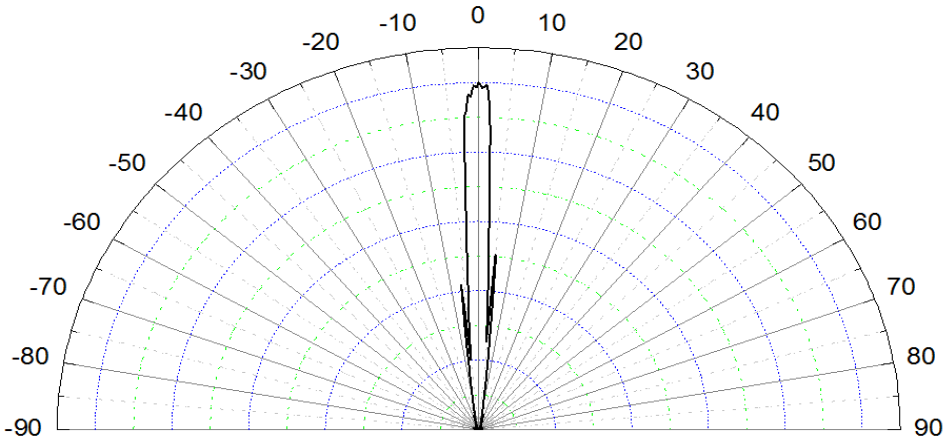
Infrared LED **EOLD-1200-015** Rev. 02, 2017

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA		0.9	1.0	V
Forward voltage	V_F	I_F= 100 mA		1.0	1.2	V
Radiant power	Φ_e	I_F= 20 mA	1.1	1.5		mW
Radiant power	Φ_e	I_F= 100 mA		7		mW
Peak wavelength	λ_p	I_F= 20 mA	1170	1200	1230	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		70		nm
Viewing angle	φ	I_F= 20 mA		6		deg.
Switching times	t_r, t_f	I_F= 20 mA		25; 40		ns



Typical radiation pattern

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