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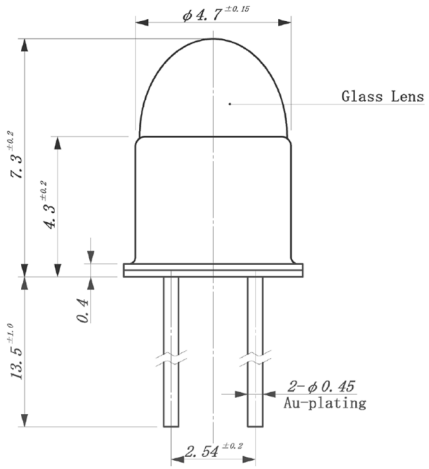
Data sheet

Infrared LED — EOLD-1200-015

Rev. 02, 2017

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



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	V_R	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 Pb-Free

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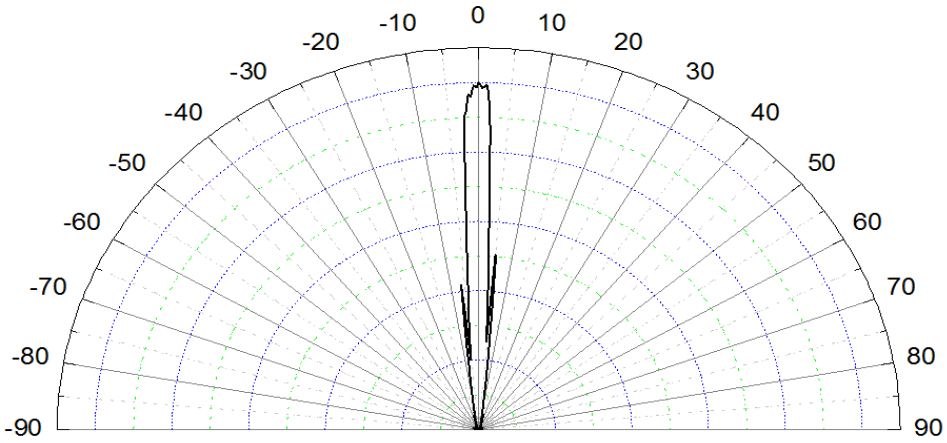
Infrared LED **EOLD-1200-015** Rev. 02, 2017

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

Art. No. 430 077