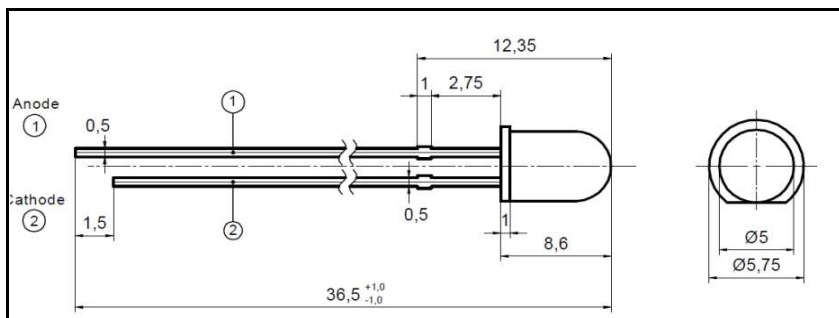


Data sheet

Infrared LED

EOLD-780-525

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

	Description: High-power, high-speed infrared LED in standard 5 mm package, with lens for narrow beam focusing, housing optional with or without standoff leads
	Application: Optical communications, safety equipment, automation

All dimensions in mm

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	150	mA
Peak forward current	t _p ≤ 50 μs, t _p / T = 1/2	I _{FM}	200	mA
Power dissipation		P _D	200	mW
Operating temperature range		T _{amb}	-20 to +80	°C
Storage temperature range		T _{stg}	-40 to +85	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T _{slg}	260	°C
Junction temperature		T _J	100	°C

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		1.4	1.6	V
Forward voltage	V _F	I _F = 100 mA		1.6	2	V
Reverse voltage	V _R	I _R = 10 μA	5			V
Radiant power	Φ _e	I _F = 20 mA	7	11		mW
Radiant power	Φ _e	I _F = 100 mA		45		mW
Peak wavelength	λ _p	I _F = 20 mA	765	780	790	nm
FWHM	Δλ _{0.5}	I _F = 20 mA		40		nm
Viewing angle	φ	I _F = 20 mA		20		deg.
Switching time	t _r , t _f	I _F = 20 mA		35		ns

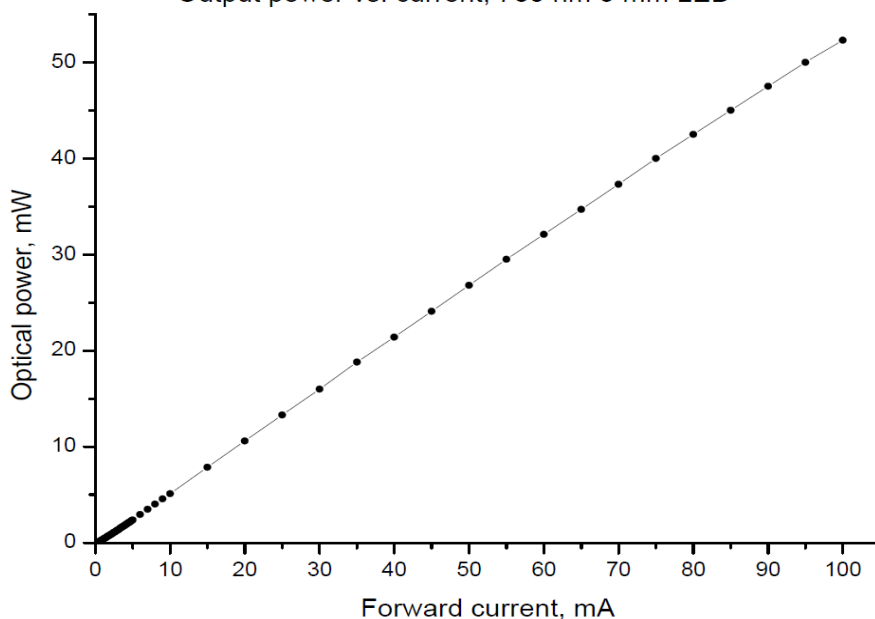


Data sheet

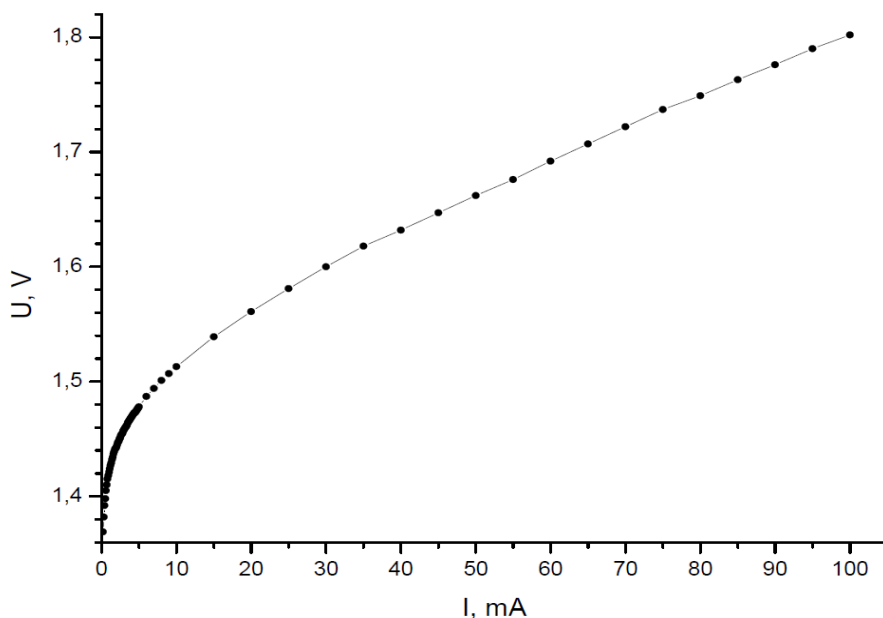
Infrared LED

EOLD-780-525

Output power vs. current, 780 nm 5 mm LED



I-U curve, 780 nm 5 mm LED



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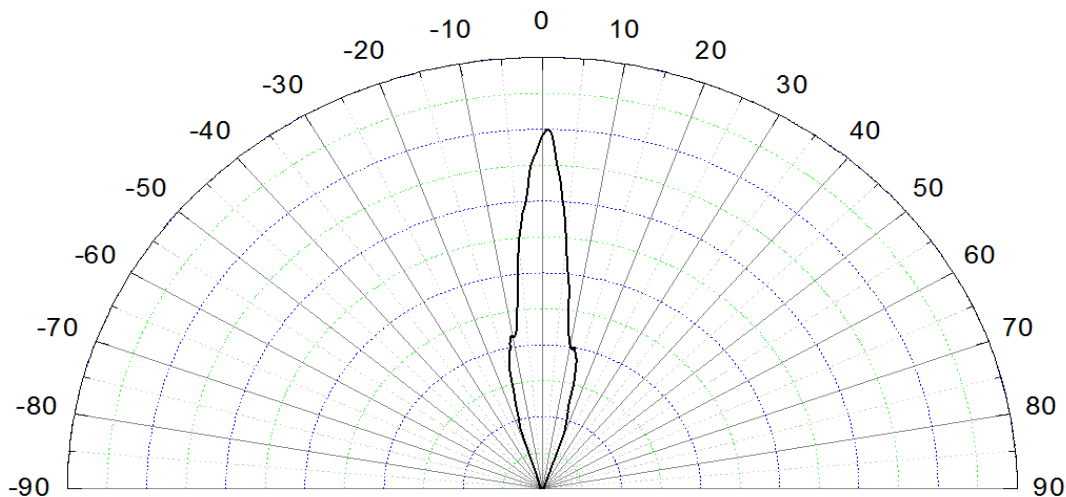
Data sheet

Infrared LED

EOLD-780-525

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Rev. 04, 2017



Typical radiation pattern

Art. No. 430 011



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.