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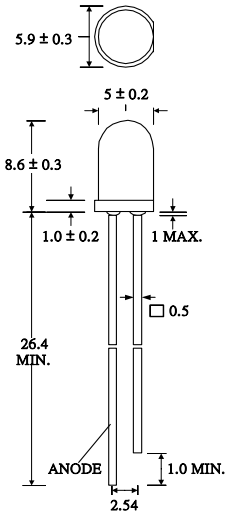
Data sheet

Infrared LED EOLD-1550-525

Rev. 09, 2021

Radiation	Type	Case
Infrared	InGaAs - based material, MQW	5 mm plastic lens



Description:

High-power infrared LED in standard 5 mm package, leads without standoff

For optical communications, safety equipment and automation

Notes:

All dimensions in mm
Lead spacing is measured where the lead emerge from the package.

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Peak forward current	$t_p \leq 50$ µs, $t_p /T = ½$	I_{FM}	200	mA
Power dissipation		P_D	100	mW
Reverse voltage	I_R= 10 µA	V_R	5	V
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

RoHS COMPLIANT Pb Pb-Free

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		V
Radiant power	Φ_e	I_F= 20 mA		2.6		mW
Radiant intensity	I_e	I_F= 20 mA		13		mW/sr
Peak wavelength	λ_p	I_F= 20 mA	1530	1550	1570	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		93		nm
Forward voltage	V_F	I_F= 100 mA		1.1	1.2	V
Radiant power	Φ_e	I_F= 100 mA		6.2		mW
Radiant intensity	I_e	I_F= 100 mA		32		mW/sr
Peak wavelength	λ_p	I_F= 20 mA	1530	1550	1570	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		121		nm
Viewing angle	φ	I_F= 20 mA		30		deg.

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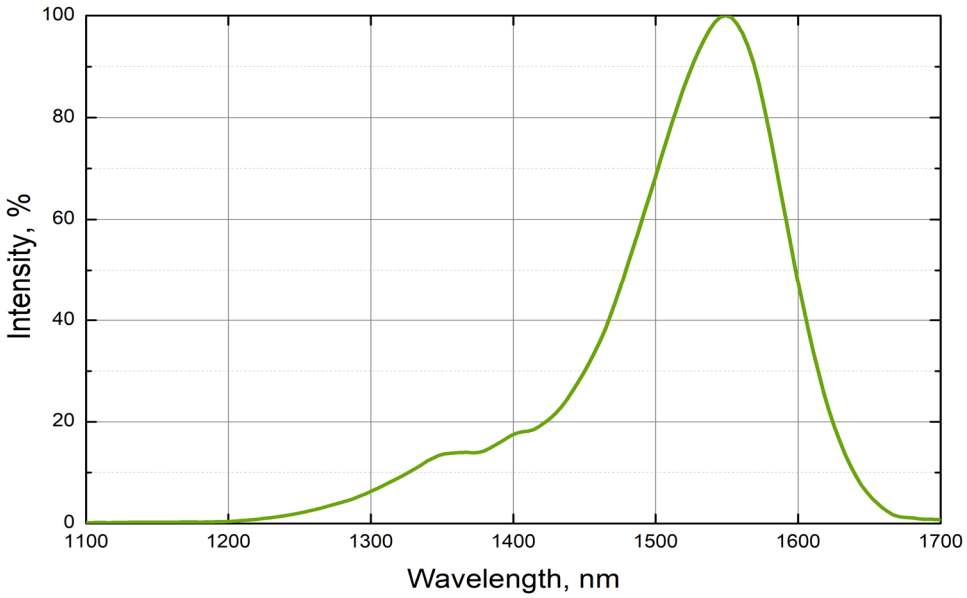
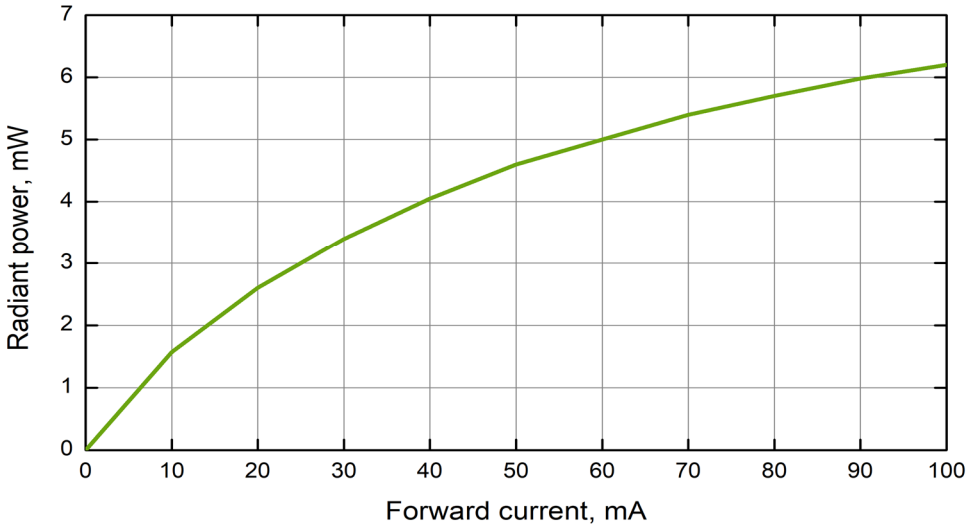


Spectrum



Radiant power vs. forward current

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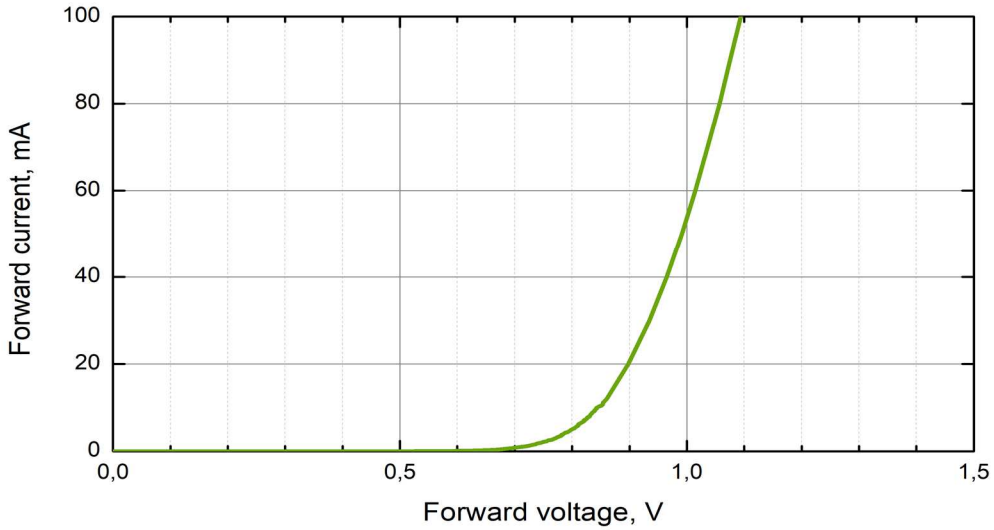
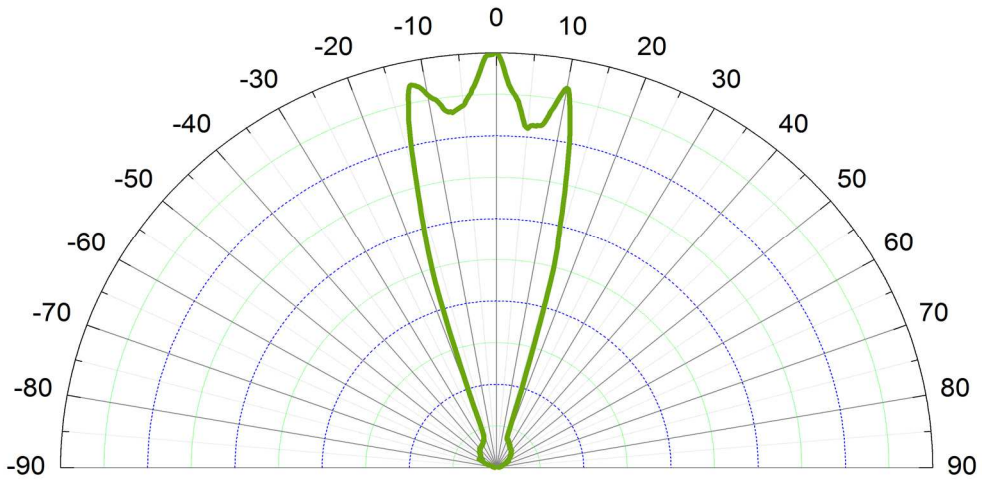


Forward current vs. forward voltage



Radiation pattern

Art. No. 430 033

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