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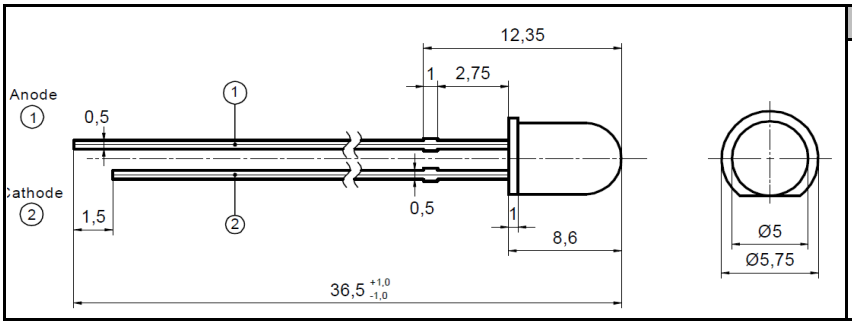
Data sheet

Infrared LED EOLD-900-525

Rev. 04, 2017

Radiation	Type	Case
Infrared	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 without standoff leads

All dimensions in mm

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
Peak forward current	$t_p \leq 10$ µs, T = 10 ms	I_{FM}	1	A
Reverse voltage	I_R = 100 µA	V_R	5	V
Power dissipation		P_D	200	mW
Operating temperature range		T_{amb}	-20 to +80	°C
Storage temperature range		T_{stg}	-30 to +85	°C
Junction temperature		T_J	100	°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	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA		1.4		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		10		mW
Radiant power	Φ_e	I_F= 100 mA		45		mW
Radiant intensity	I_e	I_F= 20 mA		40		mW/sr
Radiant intensity	I_e	I_F= 100 mA		190		mW/sr
Peak wavelength	λ_p	I_F= 20 mA	890	900	910	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		65		nm
Viewing angle	φ	I_F= 20 mA		20		deg.
Switching time	t_r, t_f	I_F= 20 mA		300		ns

RoHS COMPLIANT Pb Pb-Free

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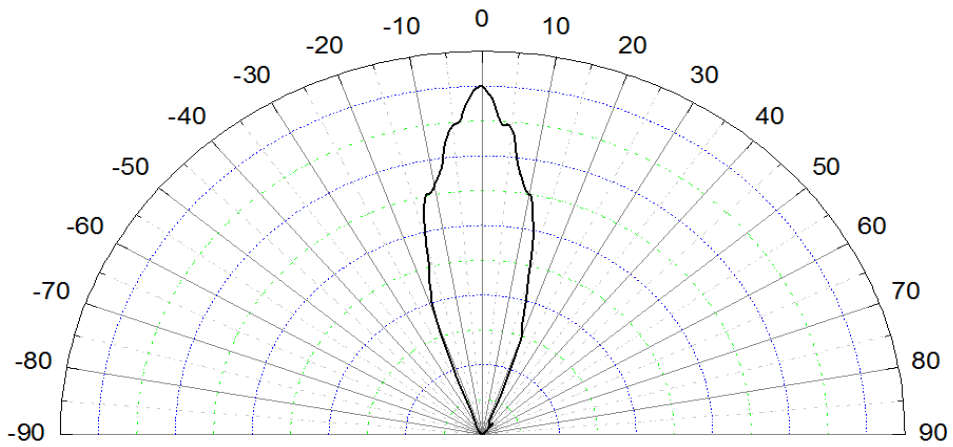

Typical radiatin pattern

Art. No. 430 002

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