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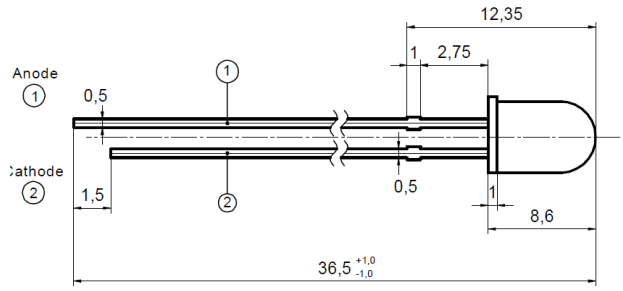
Data sheet

Infrared LED — EOLD-1650-525

Rev. 02, 2017

Radiation	Type	Case
Infrared	InGaAs/InP, MQW	5 mm plastic lens



Description:

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

for optical communications, safety equipment and automation

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
Power dissipation		P_D	100	mW
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

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		0.7	0.95	V
Forward voltage	V_F	I_F= 100 mA		0.8	1	V
Reverse voltage	V_R	I_R= 10 µA	5			V
Radiant power	Φ_e	I_F= 20 mA	1.1	1.5		mW
Radiant power	Φ_e	I_F= 100 mA	3.4	5		mW
Radiant intensity	I_e	I_F= 20 mA		5.3		mW/sr
Radiant intensity	I_e	I_F= 100 mA		25		mW/sr
Peak wavelength	λ_p	I_F= 20 mA	1610	1650	1690	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		100		nm
Viewing angle	φ	I_F= 20 mA		20		deg.
Switching time	t_r, t_f	I_F= 20 mA		25; 45		ns

RoHS COMPLIANT — Pb Pb-Free

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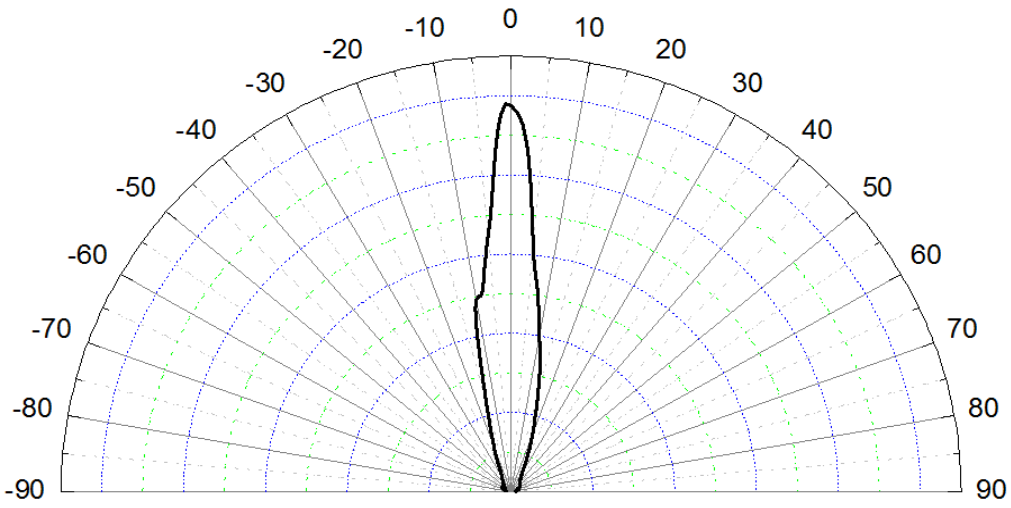

Typical radiation pattern

Art. No. 430 075

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