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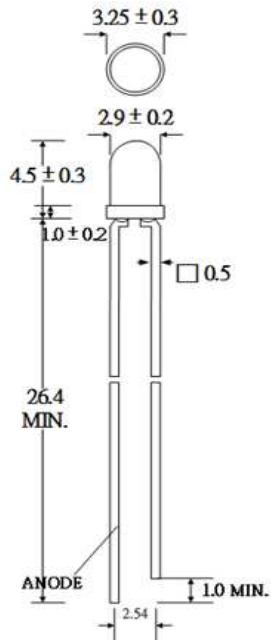
Data sheet

Infrared LED EOLD-870-355

Rev. 03, 2017

Radiation	Type	Case
Infrared	AlGaAs/AlGaAs	3 mm diameter, water clear



Description:

Round type
With flange
Solder leads without stand-off
ROHS compliant

Applications:

Optical communication, safety equipment, automation

Notes:

1. All dimensions are in millimeter
2. Lead spacing is measured where the leads emerge from the package
3. The height from lower side of standoff to upper side of the plastic body is 5.3±0.2 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 (pulse)	t=100 µs, T=1 ms	I_{FM}	1	A
Reverse voltage		V_R	5	V
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-40 to +85	°C
Storage temperature range		T_{stg}	-40 to +85	°C
Lead soldering temperature	t< 3 s, 1.6 mm from case	T_{slg}	260	°C

RoHS COMPLIANT Pb Pb-Free

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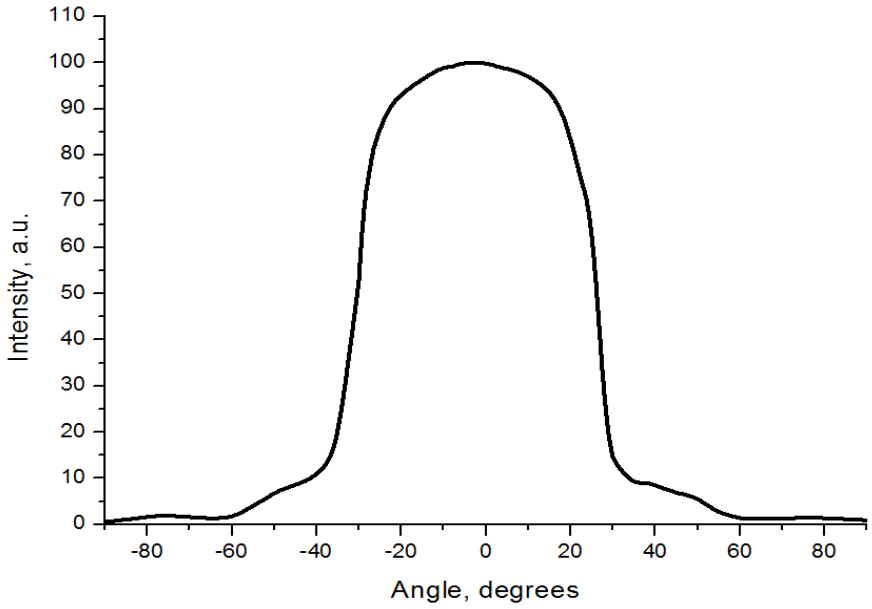
Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	I_F= 20 mA		1.35	1.55	V
Reverse current	V_R	V_R= 5 V	5		10	µA
Radiant power	Φ_e	I_F= 50 mA		22		mW
Radiant intensity	I_e	I_F= 50 mA		24		mW/sr
Peak wavelength	λ_p	I_F= 50 mA	855	870	885	nm
FWHM	$\Delta\lambda_{0,5}$	I_F= 20 mA		42		nm
Half int. beam angle	θ	I_F= 50 mA		50		deg.
Switching time	t_r, t_f	I_F= 20 mA		12; 6		ns



Typical radiation pattern

Art. No. 131 042

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