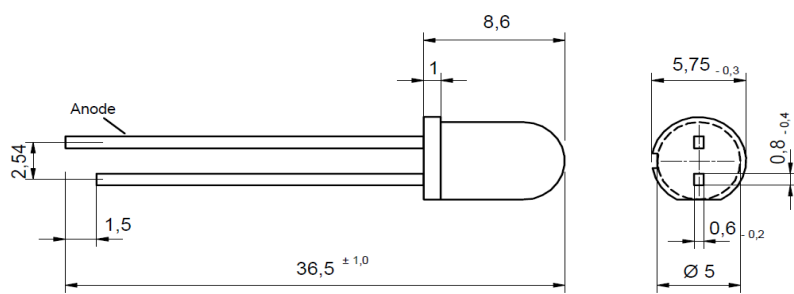


Data sheet

Infrared LED

EOLD-940-525

Radiation	Type	Case
Infrared	DH	5 mm plastic lens

	<p>Description:</p> <p>High-power, high-speed infrared LED in standard 5 mm package, housing without standoff leads</p> <p>For optical communications, safety equipment and automation</p> <p>All dimensions in mm</p>
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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}	250	mA
Power dissipation		P _D	250	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

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		1.2	1.4	V
Forward voltage	V _F	I _F = 100 mA		1.3		V
Reverse voltage	V _R	I _R = 100 μA	5			V
Radiant power	Φ _e	I _F = 20 mA	4.5	6.5		mW
Radiant power	Φ _e	I _F = 100 mA		32		mW
Peak wavelength	λ _p	I _F = 20 mA	930	940	950	nm
FWHM	Δλ _{0,5}	I _F = 20 mA		45		nm
Viewing angle	φ	I _F = 20 mA		20		deg.
Switching time	t _r , t _f	I _F = 20 mA		500		ns



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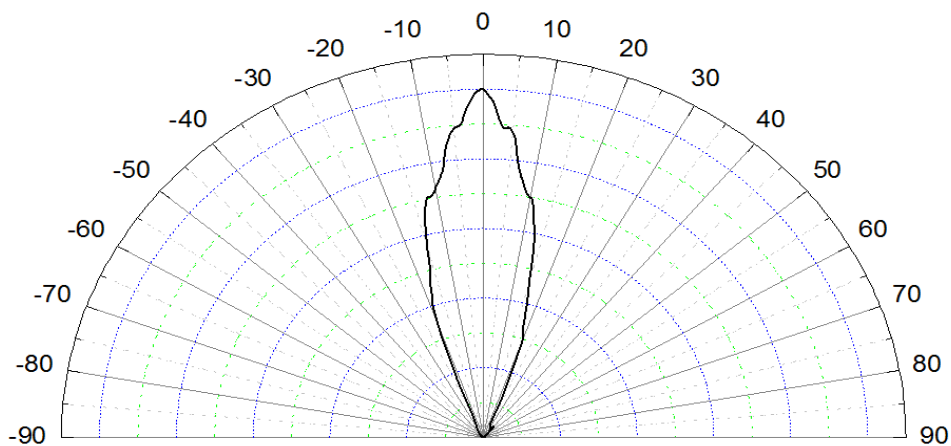


Data sheet

Infrared LED

EOLD-940-525

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Typical radiatin pattern

Art. No. 430 071



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.