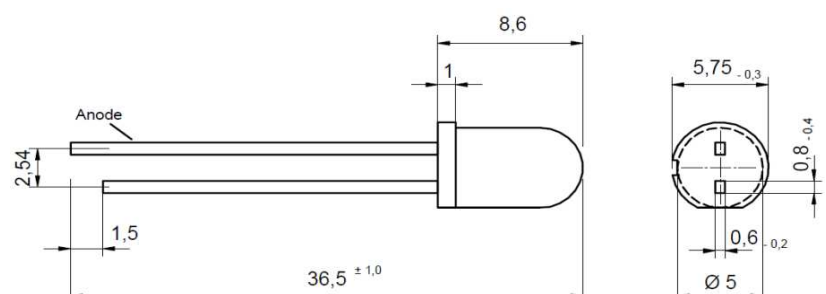


Data sheet

Infrared LED

EOLD-1020-525

Radiation	Type	Case
Infrared	MQW	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	100	mA
Peak forward current	t _p ≤ 50 μs, t _p / T = 1/2	I _{FM}	200	mA
Power dissipation		P _D	135	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		1.15	1.4	V
Forward voltage	V _F	I _F = 100 mA		1.25	1.35	V
Reverse voltage	V _R	I _R = 10 μA	5			V
Radiant power	Φ _e	I _F = 20 mA		4		mW
Radiant power	Φ _e	I _F = 100 mA		20		mW
Radiant intensity	I _e	I _F = 20 mA		13		mW/sr
Radiant intensity	I _e	I _F = 100 mA		65		mW/sr
Peak wavelength	λ _p	I _F = 20 mA	1000	1020	1040	nm
FWHM	Δλ _{0,5}	I _F = 20 mA		50		nm
Viewing angle	φ	I _F = 20 mA		20		deg.
Switching times	t _r , t _f	I _F = 20 mA		20; 40		ns



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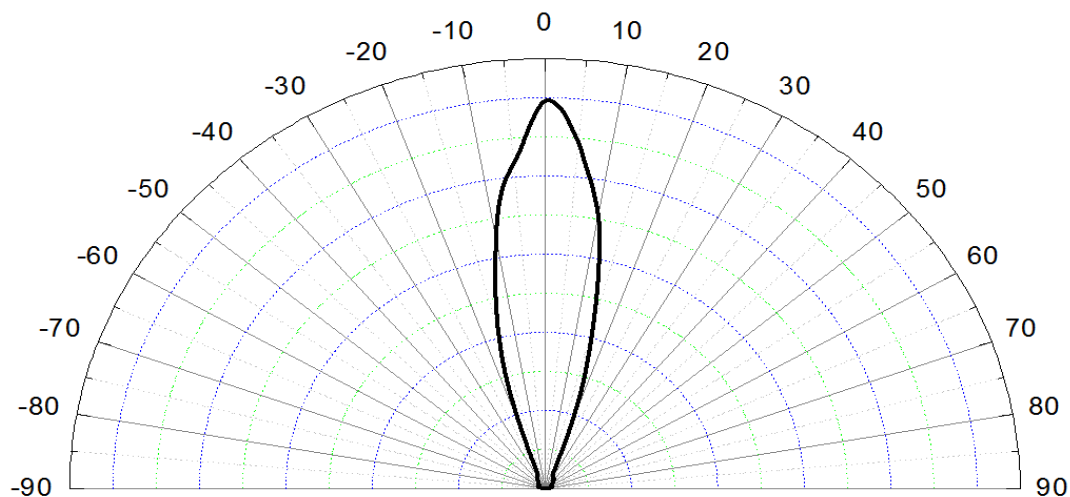


Data sheet

Infrared LED

EOLD-1020-525

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Typical radiation pattern

Art. No. 430 007



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.