

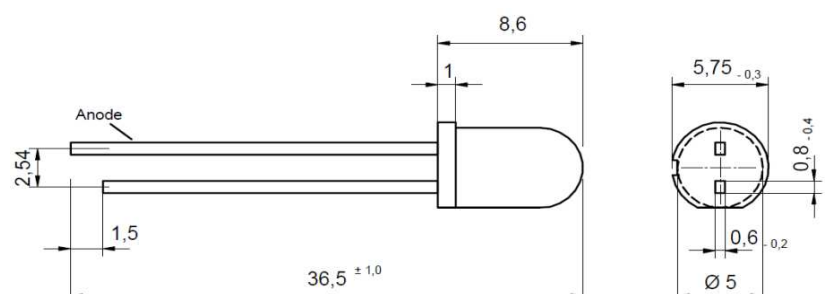
**Data sheet**

**LED Infrared**

EOLD-1060-525

Rev. 04, 2017

Radiation	Type	Case
Infrared	InGaAs, MQW	5 mm plastic lens

	<p><b>Description:</b></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>
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**Maximum Ratings**

T<sub>amb</sub>= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	100	mA
Peak forward current	t <sub>p</sub> ≤ 50 μs, t <sub>p</sub> / T = 1/2	I <sub>FM</sub>	200	mA
Power dissipation		P <sub>D</sub>	150	mW
Operating temperature range		T <sub>amb</sub>	-20 to +80	°C
Storage temperature range		T <sub>stg</sub>	-55 to +100	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T <sub>slg</sub>	260	°C

**Optical and Electrical Characteristics**

T<sub>amb</sub>= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA		1.15	1.4	V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 100 mA		1.25	1.5	V
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> = 10 μA	5			V
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 20 mA		1.6		mW
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 100 mA		8		mW
Radiant intensity	I <sub>e</sub>	I <sub>F</sub> = 20 mA		4.6		mW/sr
Radiant intensity	I <sub>e</sub>	I <sub>F</sub> = 100 mA		23		mW/sr
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	1040	1060	1080	nm
Spectral bandwidth at 50%	Δλ <sub>0,5</sub>	I <sub>F</sub> = 20 mA		80		nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		20		deg.
Switching time	t <sub>r</sub> , t <sub>f</sub>	I <sub>F</sub> = 20 mA		20		ns

