

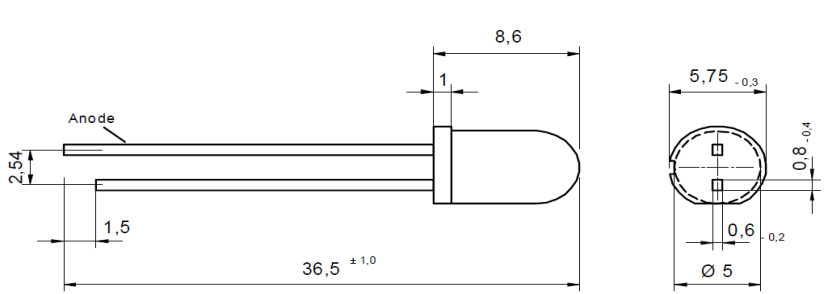
**Data sheet**

**Infrared LED**

**EOLD-965-525**

Rev. 03, 2017

Radiation	Type	Case
Infrared	GaAs	5 mm plastic lens

Description:	
	<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>

**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
Operating temperature range		T <sub>amb</sub>	-20 to +80	°C
Storage temperature range		T <sub>stg</sub>	-40 to +85	°C
Junction temperature		T <sub>J</sub>	100	°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		1.2	1.4	V
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> = 100 μA	5			V
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 20 mA	6	8.5		mW
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 100 mA		27		mW
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA		965		nm
FWHM	Δλ <sub>0.5</sub>	I <sub>F</sub> = 20 mA		40		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		400		ns

Art. No. 430 008



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.