

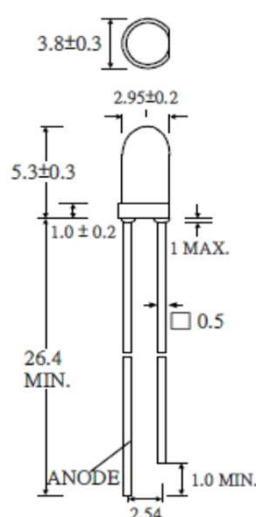
**Data sheet**

**Infrared LED**

**EOLD-840-325**

Rev. 03, 2017

Radiation	Type	Case
Infrared	AlGaAs/AlGaAs, DDH	3 mm plastic lens

Description:
 <p>High-power, high-speed infrared LED in standard 3 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>	-30 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		1.6	1.9	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	4.5	6.5		mW
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 100 mA		33		mW
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	830	840	850	nm
FWHM	Δλ <sub>0,5</sub>	I <sub>F</sub> = 20 mA		35		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		40		ns

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