

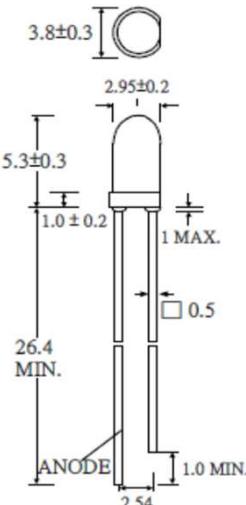
## Data sheet

### 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

 $T_{amb}$ = 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	100	mA
Peak forward current	$t_p \leq 50 \mu s, t_p/T = 1/2$	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

 $T_{amb}$ = 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	$\Phi_e$	I <sub>F</sub> = 20 mA	4.5	6.5		mW
Radiant power	$\Phi_e$	I <sub>F</sub> = 100 mA		33		mW
Peak wavelength	$\lambda_p$	I <sub>F</sub> = 20 mA	830	840	850	nm
FWHM	$\Delta\lambda_{0.5}$	I <sub>F</sub> = 20 mA		35		nm
Viewing angle	$\varphi$	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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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.