

Data sheet

Infrared LED

EOLD-1550-525

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Rev. 06, 2017

Radiation	Type	Case
Infrared	InGaAs/InP, MQW	5 mm plastic lens

		Description:
		High-power, high-speed infrared LED in standard 5 mm package, housing without standoff leads
For optical communications, safety equipment and automation		
All dimensions in mm		

Maximum Ratings

 $T_{amb} = 25^\circ\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I_F	100	mA
Peak forward current	$t_p \leq 50 \mu\text{s}, t_p/T = 1/2$	I_{FM}	200	mA
Power dissipation		P_D	100	mW
Operating temperature range		T_{amb}	-20 to +80	°C
Storage temperature range		T_{sig}	-55 to +85	°C
Lead soldering temperature	$t < 5 \text{ s}, 3 \text{ mm from case}$	T_{sig}	260	°C

Optical and Electrical Characteristics

 $T_{amb} = 25^\circ\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20 \text{ mA}$		0.75	0.9	V
Forward voltage	V_F	$I_F = 100 \text{ mA}$		0.85	1	V
Reverse voltage	V_R	$I_R = 10 \mu\text{A}$	5			V
Radiant power	Φ_e	$I_F = 20 \text{ mA}$		0.9		mW
Radiant power	Φ_e	$I_F = 100 \text{ mA}$		3.3		mW
Radiant intensity	I_e	$I_F = 20 \text{ mA}$		2.2		mW/sr
Radiant intensity	I_e	$I_F = 100 \text{ mA}$		11		mW/sr
Peak wavelength	λ_p	$I_F = 20 \text{ mA}$	1530	1550	1570	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20 \text{ mA}$		130		nm
Viewing angle	ϕ	$I_F = 20 \text{ mA}$		20		deg.
Switching time	t_r, t_f	$I_F = 20 \text{ mA}$		10		ns



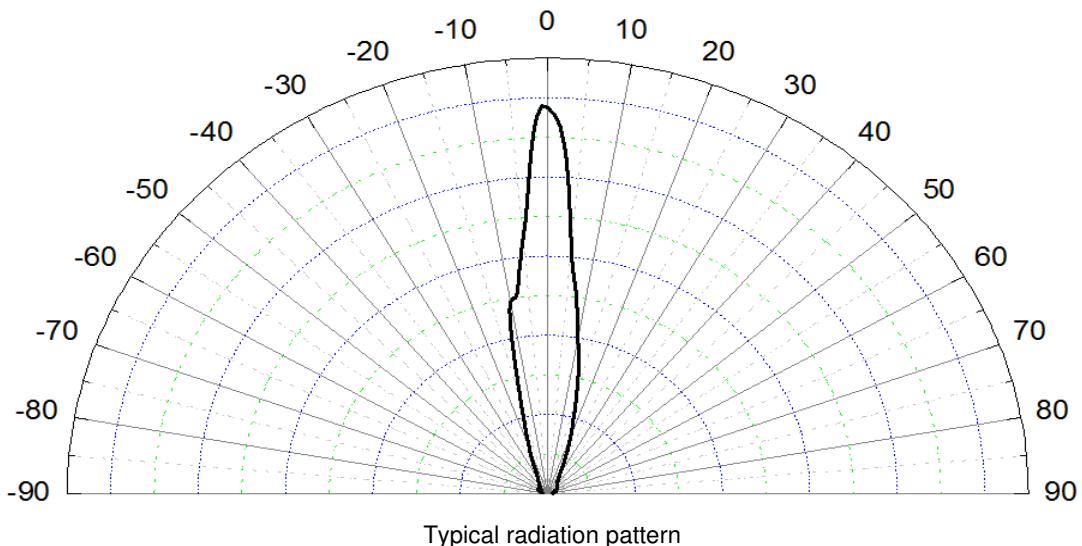
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We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.