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Data sheet

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Infrared LED

EOLD-1050-015

Rev. 02, 2017

Radiation	Type	Case
Infrared	GaAs, MQW	TO-46 with glass lens cap

	Description:
<p>① Cathode ② Anode</p> <p>Dimensions (Unit:mm)</p>	Application:
	<p>High-power, high speed, narrow beam angle, high reliability</p> <p>Optical switches, optical communication, safety equipment, automation</p>

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 (pulse)	$t \leq 50 \mu\text{s}$, $T = 100 \mu\text{s}$	I_{FM}	200	mA
Reverse voltage	$I_R = 10 \mu\text{A}$	I_{RM}	5	V
Power dissipation		P_D	140	mW
Operating temperature range		T_{amb}	-20 to +85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +100	$^{\circ}\text{C}$
Lead soldering temperature	$t < 5 \text{ s}$, 3 mm from case	T_{slg}	260	$^{\circ}\text{C}$
Junction temperature		T_J	100	$^{\circ}\text{C}$



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.

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Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 20 mA		1.15	1.4	V
Forward voltage	V _F	I _F = 50 mA		1.2	1.45	V
Forward voltage	V _F	I _F = 100 mA		1.25	1.5	V
Radiant power	Φ _e	I _F = 20 mA		1.6		mW
Radiant power	Φ _e	I _F = 100 mA		8		mW
Peak wavelength	λ _p	I _F = 20 mA	1000	1050	1100	nm
FWHM	Δλ _{0,5}	I _F = 20 mA		100		nm
Viewing angle	φ	I _F = 20 mA		6		deg.
Switching time	t _r , t _f	I _F = 20 mA		10		ns

Art. No. 430 076



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