

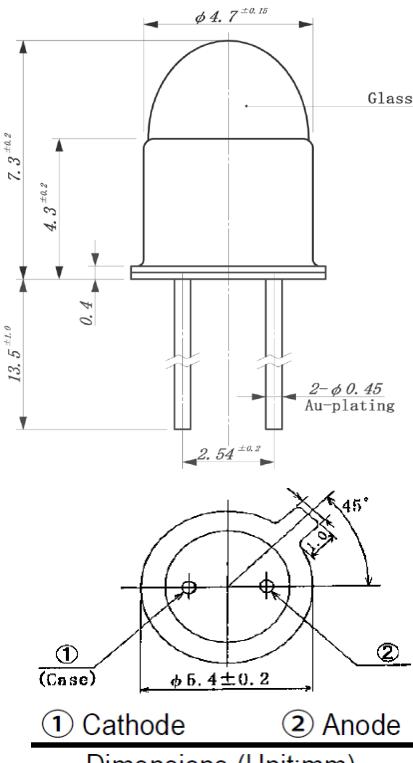
Data sheet

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Infrared LED
EOLD-1050-015

Rev. 02, 2017

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

 Dimensions (Unit:mm)	Description: High-power, high speed, narrow beam angle, high reliability
	Application: Optical switches, optical communication, safety equipment, automation

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

Parameter	Test conditions	Symbol	Value	Unit
Forward current		I _F	100	mA
Peak forward current (pulse)	t ≤ 50 µs, T = 100 µs	I _{FM}	200	mA
Reverse voltage	I _R =10 µA	I _{FM}	5	V
Power dissipation		P _D	140	mW
Operating temperature range		T _{amb}	-20 to +85	°C
Storage temperature range		T _{stg}	-30 to +100	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T _{sld}	260	°C
Junction temperature		T _J	100	°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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**Data sheet**

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Infrared LED**EOLD-1050-015**

Rev. 02, 2017

Optical and Electrical CharacteristicsT_{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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