



## ELD-1720-015

### LED Infrared

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Radiation	Type	Case
Infrared	InGaAs/InP, MQW	TO-46 with glass lens cap

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

#### 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 (pulse)	t ≤ 50 μs, T = 100 μs	I <sub>FM</sub>	200	mA
Reverse voltage	I <sub>R</sub> = 10 μA	I <sub>FM</sub>	5	V
Power dissipation		P <sub>D</sub>	100	mW
Operating temperature range		T <sub>amb</sub>	-20 to +85	°C
Storage temperature range		T <sub>stg</sub>	-30 to +100	°C
Lead soldering temperature	t < 5 s, 3 mm from case	T <sub>slg</sub>	260	°C
Junction temperature		T <sub>J</sub>	100	°C





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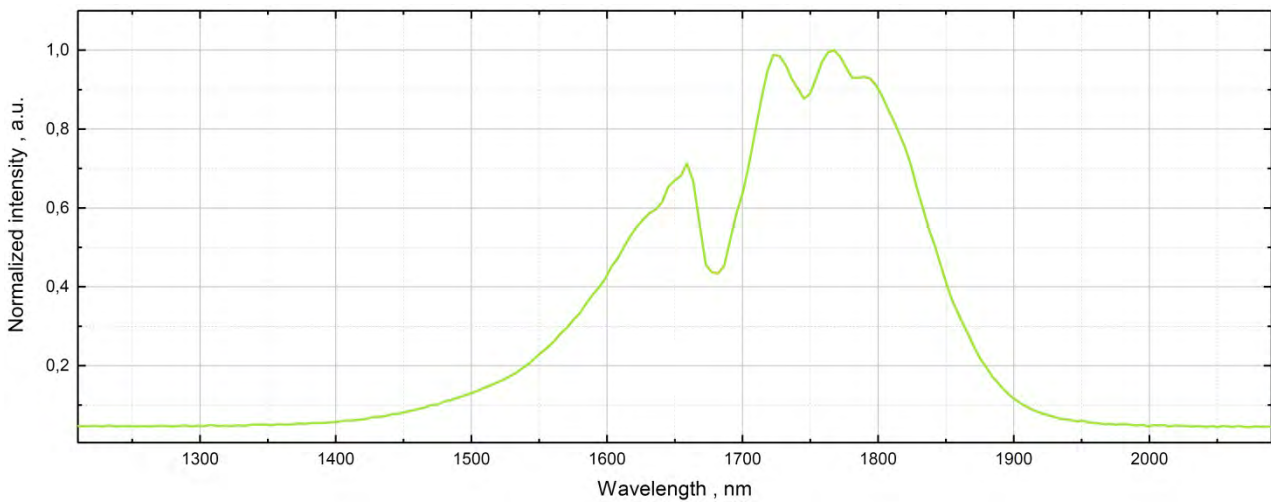
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### Optical and Electrical Characteristics

T<sub>amb</sub> = 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	I <sub>F</sub> =20 mA	V <sub>F</sub>		0.7	0.95	V
Forward voltage	I <sub>F</sub> =100 mA	V <sub>F</sub>		0.9		V
Reverse voltage	I <sub>R</sub> =10 μA	V <sub>R</sub>	5			V
Radiant power	I <sub>F</sub> =20 mA	Φ <sub>e</sub>		1		mW
Radiant power	I <sub>F</sub> =100 mA	Φ <sub>e</sub>		4		mW
Peak wavelength	I <sub>F</sub> =20 mA	λ <sub>p</sub>		1720		nm
Spectral bandwidth at 50%	I <sub>F</sub> =20 mA	Δλ <sub>0.5</sub>		130		nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		6		deg.
Switching times	t <sub>r</sub> , t <sub>f</sub>	I <sub>F</sub> = 20 mA		15		ns

### Spectral Emission



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