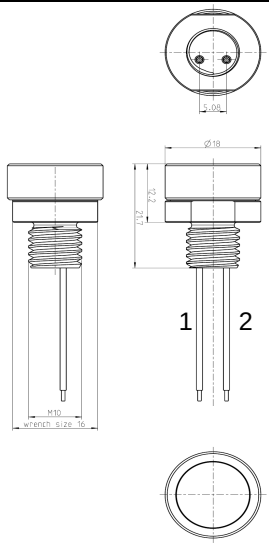
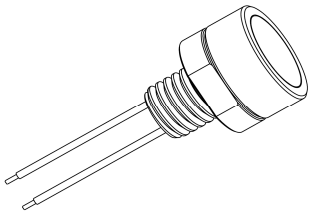
Radiation	Type	Case	Lens
amber	2.6 W	Aluminium	Plastic





Outline:

H = 12.2 mm (± 0.5)

D = 18.0 mm (± 0.5)

Thread M10 x 1.5

Pin 1 – cathode (black)

Pin 2 – anode (red)

Description

High-power amber LED in an aluminium case with thread socket, for easy handling and heat sink mounting. Applications demanding long lifetimes are perfectly addressed with this highly reliable LED.
LED is protected by ESD device which is connected in parallel to LED-Chip.
LED is well protected against rough ambient conditions therefore this LED is perfectly suited for outdoor use.

Applications

Industrial lighting, outdoor/indoor lighting, miniatur spot light, architectural lighting, shop lighting, stage lighting

Absolute Maximum Ratings

at T_{amb} = 25℃, on heat sink (S ≥ 200 cm²), unless otherwise specified

Parameter	Remarks	Symbol	Value	Unit
DC forward current	on heat sink	I_F	1.0	A
Power dissipation	on heat sink	P	3.0	W
Surge current	on heat sink t ≤ 10µs; DC = 0.005	I_{FM}	2.0	A
Reverse current [3]		I_R	200	mA
Operating temperature range	on heat sink	T_{amb}	-25 to +85	℃
Storage temperature range		T_{stg}	-25 to +85	℃
Junction temperature		T_j	135	℃
International Protection		IP	66	

[3] Not designed to be driven with reverse bias

Electrical Characteristics

at T_{amb} = 25℃, on heat sink (S ≥ 200 cm²), $t_{Measuring}$ < 1 s, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Forward voltage [1]	I_F = 350 mA	V_F	2	2.2	2.6	V
Forward voltage [1]	I_F = 1000 mA	V_F		2.6		V
Reverse voltage	I_F = 350 mA	V_R			1.2	V
ESD withstand voltage		V_{ESD}			8	kV
Thermal resistance junction-case		R_{thJC}		10		K/W

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Optical Characteristics

at T_{amb} = 25℃, on heat sink (S ≥ 200 cm²), t_{Meas} < 1 s, unless otherwise specified

Parameter	Test conditions	Symbol	Min	Typ	Max	Unit
Radiant power [1 2]	I_F = 350 mA	Φ_e		220		mW
Radiant power [1 2]	I_F = 1000 mA	Φ_e		580		mW
Luminous power [1 2]	I_F = 350 mA	Φ_v		50		lm
Luminous power [1 2]	I_F = 1000 mA	Φ_v		130		lm
Luminous intensity [1 4]	I_F = 350 mA	I_v	?	180		cd
Luminous intensity [1 4]	I_F = 1000 mA	I_v	?	450		cd
Peak wavelength	I_F = 350 mA	λ_p		625		nm
Dominant wavelength	I_F = 350 mA	λ_{dom}	609	617	624	nm
Spectral bandwidth at 50%	I_F = 350 mA	$\Delta\lambda_{0.5}$		16		nm
Viewing angle	I_F = 350 mA	2φ		29		deg

[1] only recommended on optimal heat sink

[2] for information only

[4] CIE127:2007 Condition B (0.01 sr)

Note: All measurements carried out with JENOPTIK Polymer Systems equipment, on aluminium heat sink,
S = 200 cm², passive cooling. Measurement results and curve characteristics obtained with other heat sinks may differ.

Safety Advise*

The evaluation of eye safety occurs according to the standard CIE/IEC 62471:2006 ("photobiological of lamps and lamp systems"). Within the risk grouping system of this CIE standard, the LED specified in this data sheet falls at maximum into the ***Group 1- Low Risk***

At normal behaviour and use, this LED does not pose a hazard.

*Note: Safety classification of an optical component mainly depends on the intended application and the way the component is being used. Furthermore, all statements made to classification are based on calculations and are only valid for this LED "as it is", and at continuous operation, assuming direct view and maximum forward current. Using pulsed current or altering the light beam with additional optics may lead to different safety classifications. Therefore these remarks should be taken as recommendation and guideline only.

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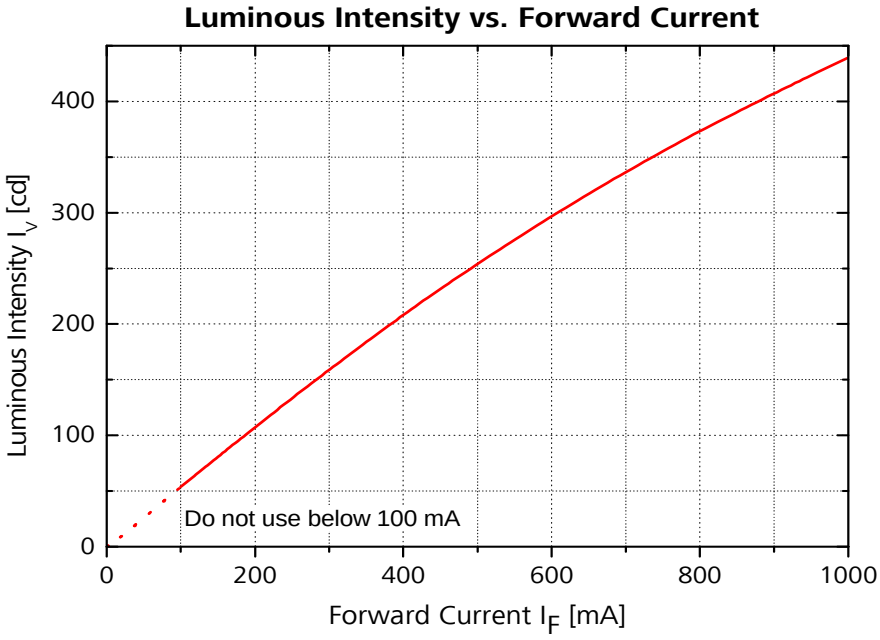

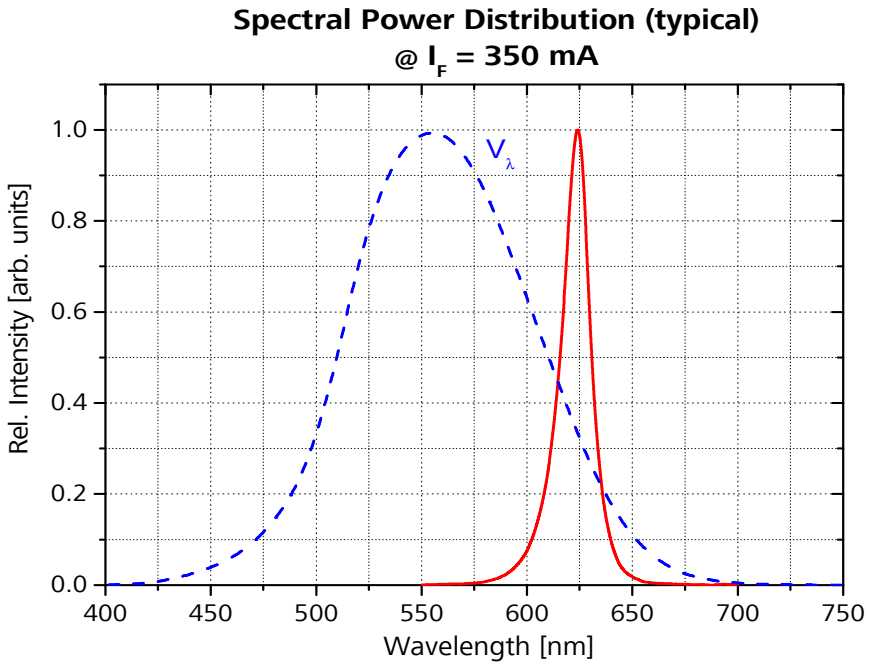

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