

**Product Data Sheet**

**UV LED**

**EOLD-400-535**

Radiation	Type	Case
ultraviolet	InGaN/SiC	5mm plastic lens

	<p>Notes:</p> <ol style="list-style-type: none"> <li>All dimensions are in millimeter</li> <li>Lead spacing is measured where the lead emerge from the package</li> </ol>	<p><b>Description:</b></p> <p>Super bright LED, round type, 5mm diameter, lens color: water clear with flange, housing without standoff leads, complaint with RoHS</p>
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**Maximum Ratings**

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	30	mA
Peak forward current	(1/10 duty cycle @1 kHz)	I <sub>FM</sub>	100	mA
Power dissipation		P <sub>D</sub>	120	mW
Operating temperature range		T <sub>amb</sub>	-40 to +85	°C
Storage temperature range		T <sub>stg</sub>	-40 to +100	°C
Lead soldering temp.	t < 5 s, 3mm from case	T <sub>slg</sub>	260	°C

**Optical and Electrical Characteristics**

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

Parameter	Symbol	Conditions	Min	typ	max	Unit
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA		3.2	3.8	V
Reverse current	V <sub>R</sub>	I <sub>R</sub> = 10 µA	5			V
Luminous intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	20	30		mcd
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	395	400	405	nm
Dominant Wavelength	λ <sub>D</sub>	I <sub>F</sub> = 20 mA	400	410	420	nm
Spectral bandwidth at 50%	Δλ <sub>0,5</sub>	I <sub>F</sub> = 20 mA		30		nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		30		deg.

Tolerance of viewing angle: -10/+5 deg.

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.

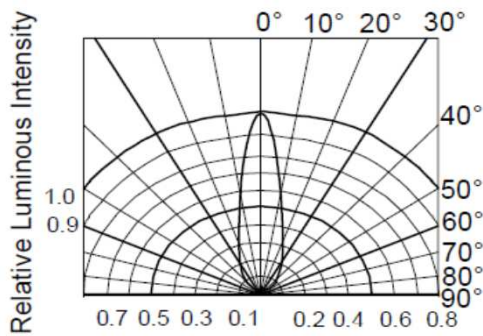


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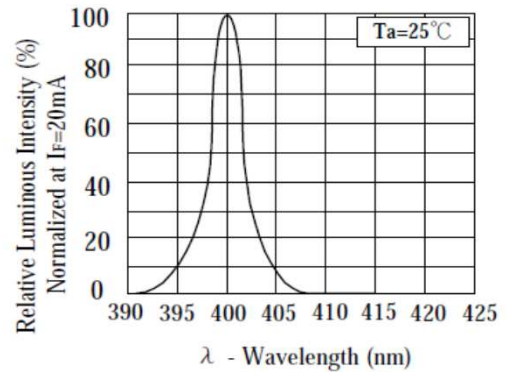
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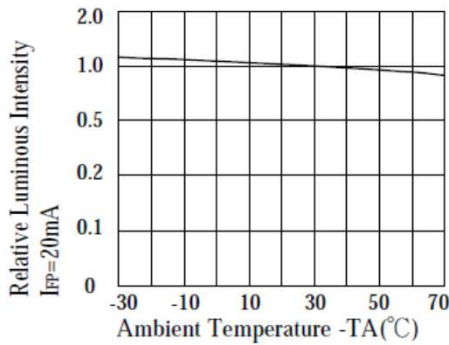
**Typical optical-electrical characteristic curves**



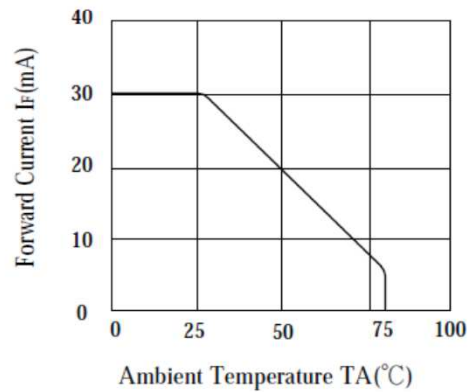
**RADIATION DIAGRAM**



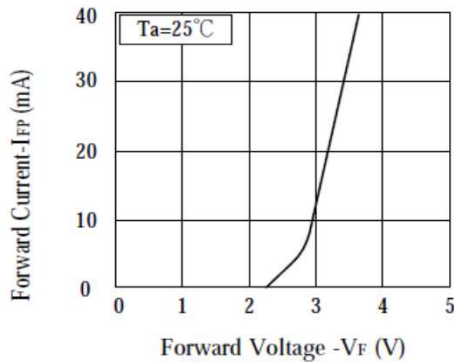
**RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH**



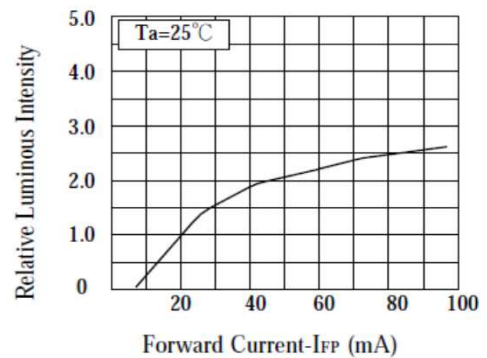
**LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE**



**MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE**



**FORWARD CURRENT Vs. FORWARD VOLTAGE**



**LUMINOUS INTENSITY Vs. FORWARD CURRENT**