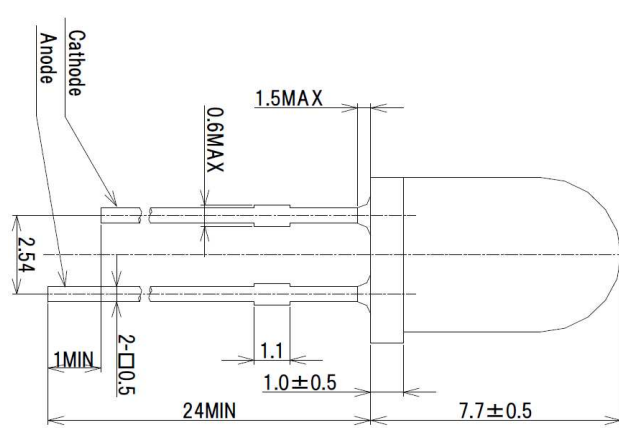


**Data sheet**

**UV LED**

**EOLD-375-545 HP**

Radiation	Type	Case
Ultraviolet	Resin mold packaged	5 mm plastic lens

Description:
 <p>Dimension in mm</p> <ul style="list-style-type: none"> <li>* High power</li> <li>* High-speed</li> <li>* High reliabtiy</li> </ul>

**Maximum Ratings**

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I <sub>F</sub>	25	mA
Peak forward current	t < 0.1 ms, t/T < 1/10	I <sub>FM</sub>	100	mA
Reverse current	V <sub>R</sub> = 5 V	I <sub>R</sub>	85	mA
Power dissipation		P <sub>D</sub>	100	mW
Operating temperature range		T <sub>amb</sub>	-30 to +80	°C
Storage temperature range		T <sub>stg</sub>	-30 to +85	°C
Lead soldering temperature	< 5 s, 3 mm 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	3.6	4.2	V
Radiant power	Φ <sub>e</sub>	I <sub>F</sub> = 20 mA	17	19	21	mW
Peak wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	375		380	nm
FWHM	Δλ <sub>0,5</sub>	I <sub>F</sub> = 20 mA	10		20	nm
Viewing angle	φ	I <sub>F</sub> = 20 mA		40		deg.

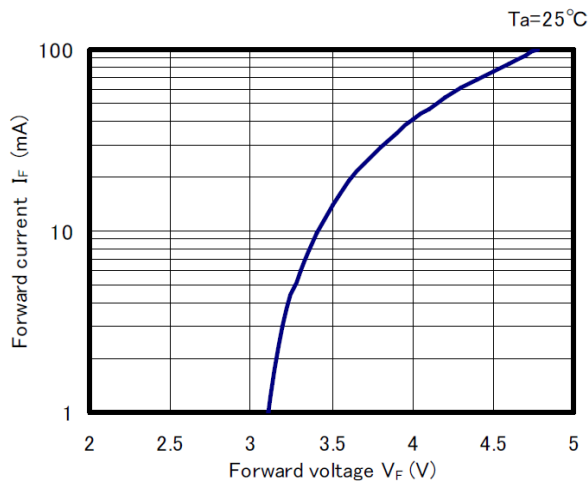


**Data sheet**

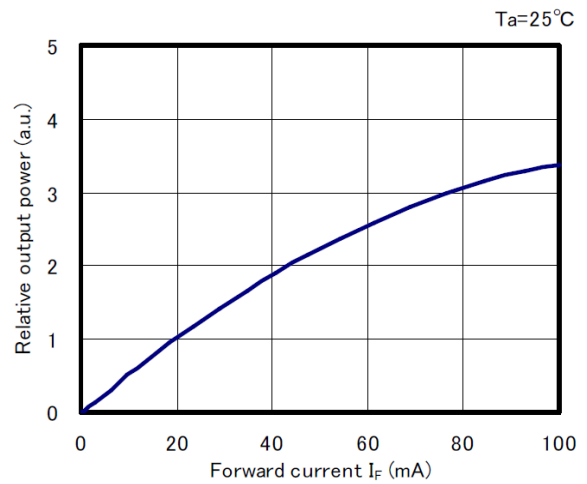
**UV LED**

**EOLD-375-545 HP**

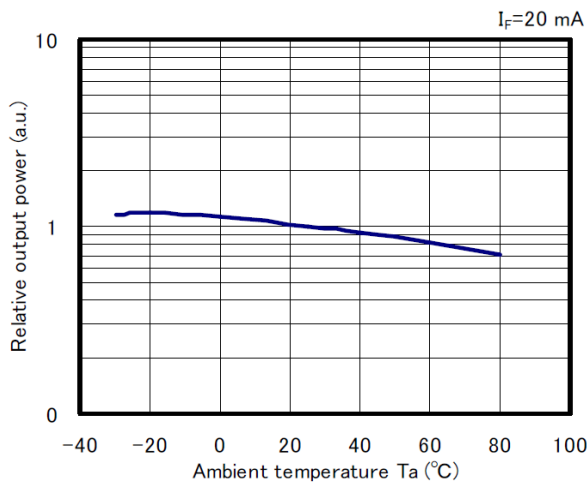
■ Forward voltage vs. Forward current



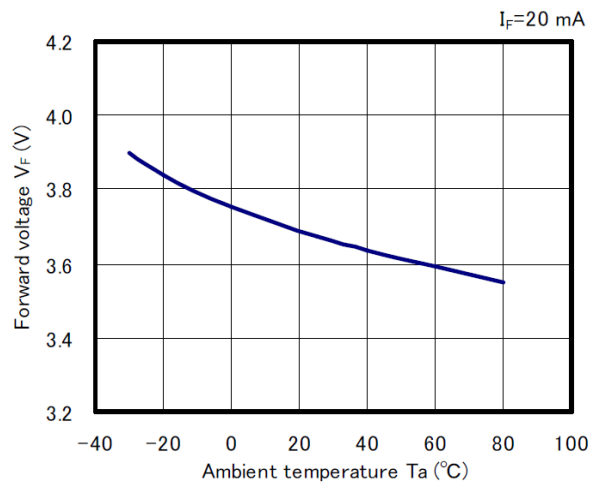
■ Forward current vs. Relative output power



■ Ambient temperature vs. Relative output power



■ Ambient temperature vs. Forward voltage



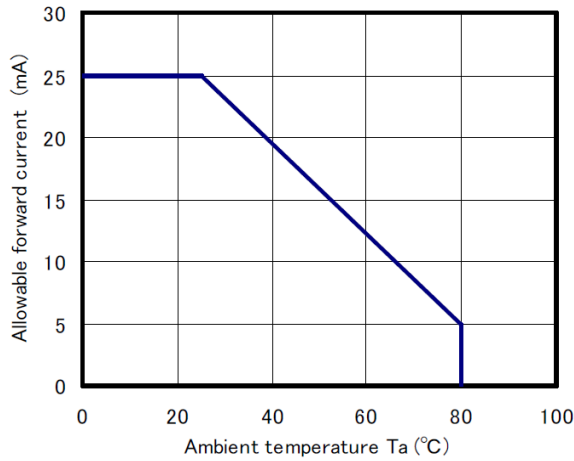
**Data sheet**

**UV LED**

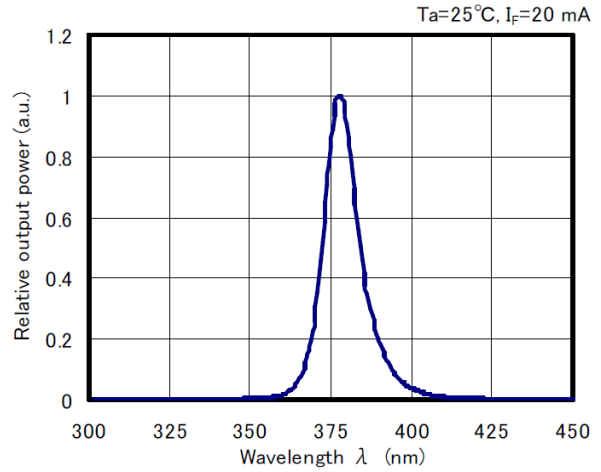
**EOLD-375-545 HP**

■ Ambient temperature vs.

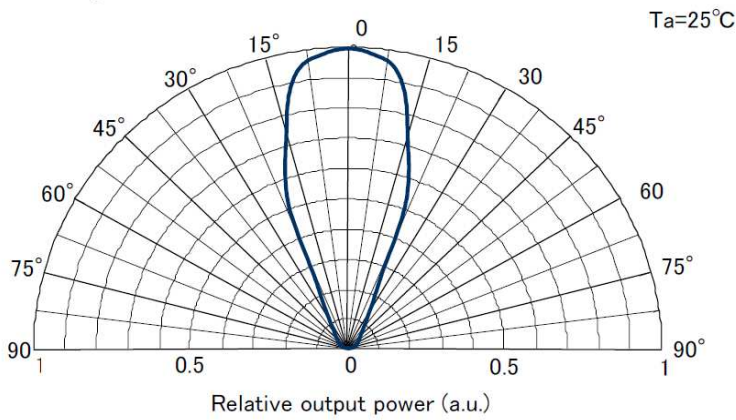
Allowable forward current



■ Spectrum



■ Directivity



Art. No. 132 004



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.