

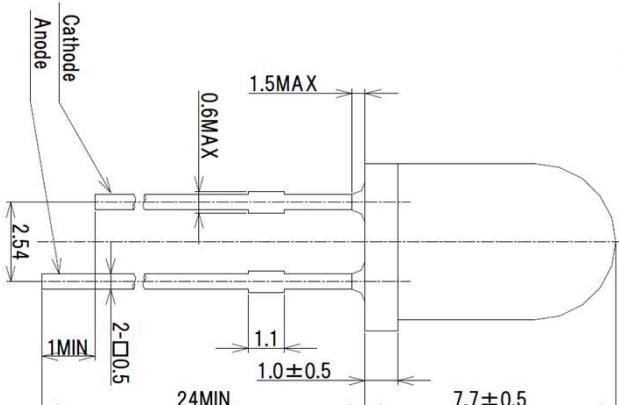
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UV LED**EOLD-375-545 HP**

Rev. 03, 2014

Radiation	Type	Case
Ultraviolet	Resin mold packaged	5 mm plastic lens

		Description:
Dimension in mm *High power *High-speed *High reliability		

Maximum Ratings

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

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	25	mA
Peak forward current	t < 0.1 ms, t/T < 1/10	I _{FM}	100	mA
Reverse current	V _R = 5 V	I _R	85	mA
Power dissipation		P _D	100	mW
Operating temperature range		T _{amb}	-30 to +80	°C
Storage temperature range		T _{stg}	-30 to +85	°C
Lead soldering temperature	< 5 s, 3 mm from case	T _{sld}	260	°C

Optical and Electrical Characteristics

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 20 mA	3.2	3.6	4.2	V
Radiant power	Φ_e	I _F = 20 mA	17		21	mW
Peak wavelength	λ_p	I _F = 20 mA	375		380	nm
Viewing angle	ϕ	I _F = 20 mA		40		deg.
Spectral bandwidth at 50%	$\Delta\lambda_{0.5}$	I _F = 20 mA	10		20	nm



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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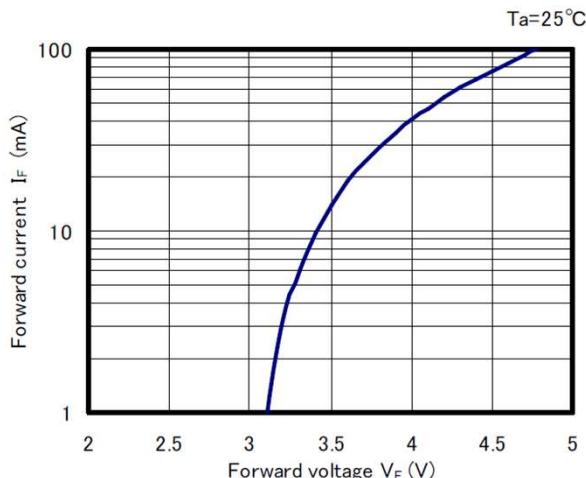
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UV LED

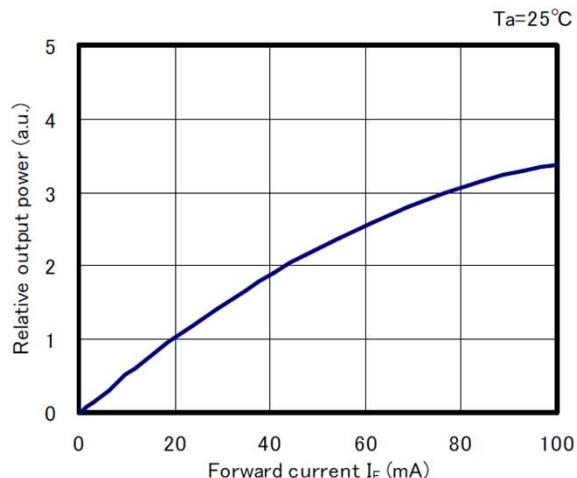
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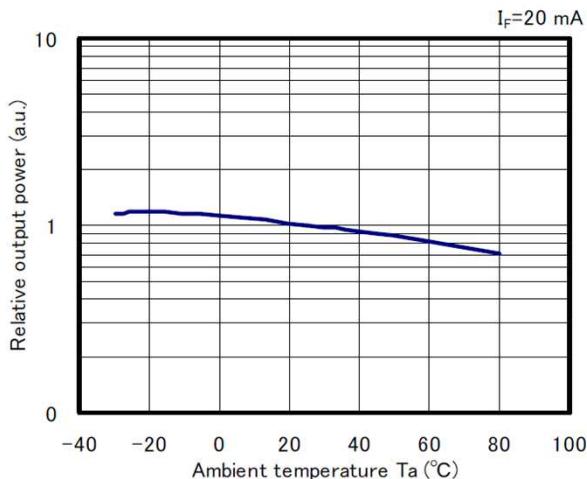
■ Forward voltage vs. Forward current



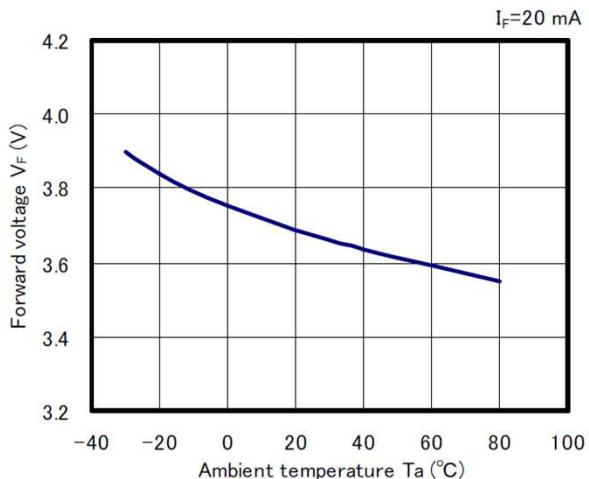
■ Forward current vs. Relative output power



■ Ambient temperature vs. Relative output power



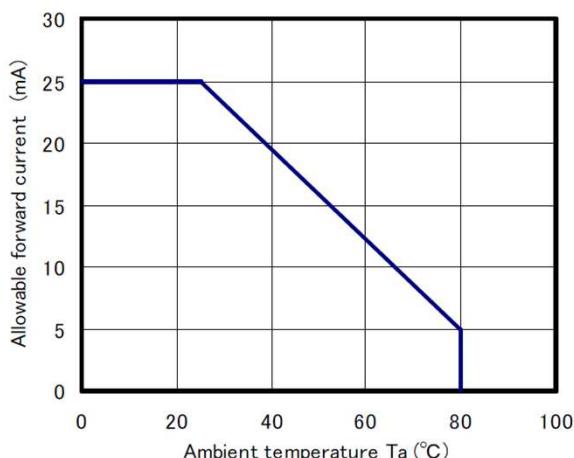
■ Ambient temperature vs. Forward voltage



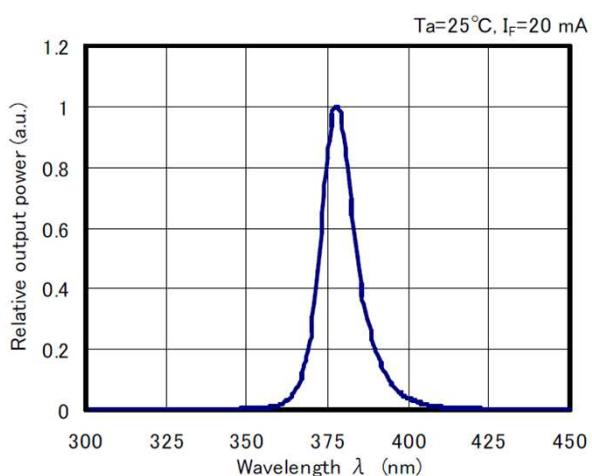
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- Ambient temperature vs.
Allowable forward current



- Spectrum



- Directivity

