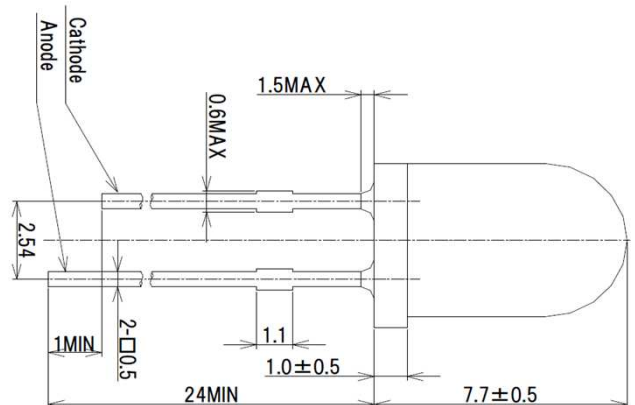


Data sheet

UV LED

EOLD-400-545 HP

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 _{slg}	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	3.2	4	V
Radiant power	Φ _e	I _F = 20 mA	21		29	mW
Peak wavelength	λ _p	I _F = 20 mA	400		410	nm
Viewing angle	φ	I _F = 20 mA		40		deg.
Spectral bandwidth at 50%	Δλ _{0,5}	I _F = 20 mA	10		20	nm

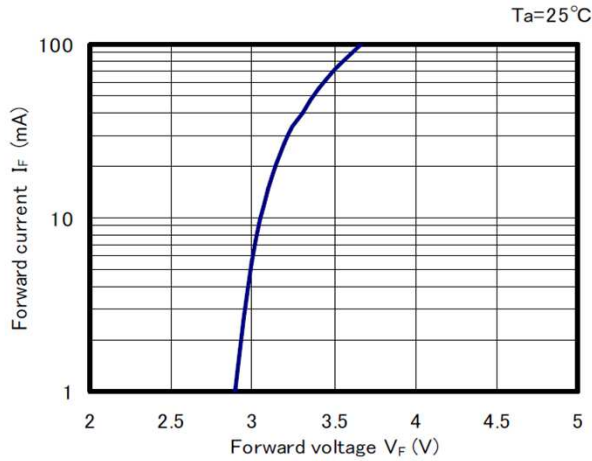


Data sheet

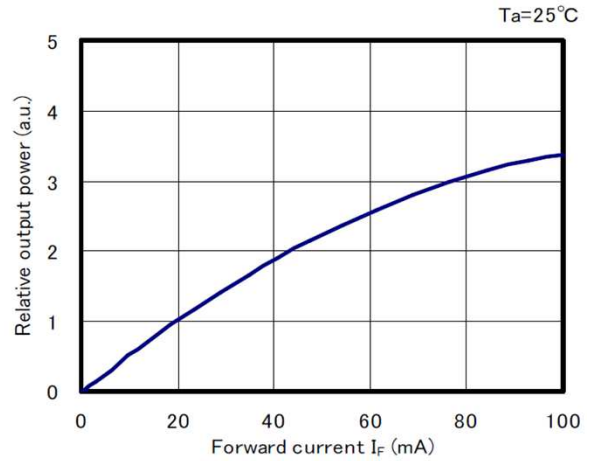
UV LED

EOLD-400-545 HP

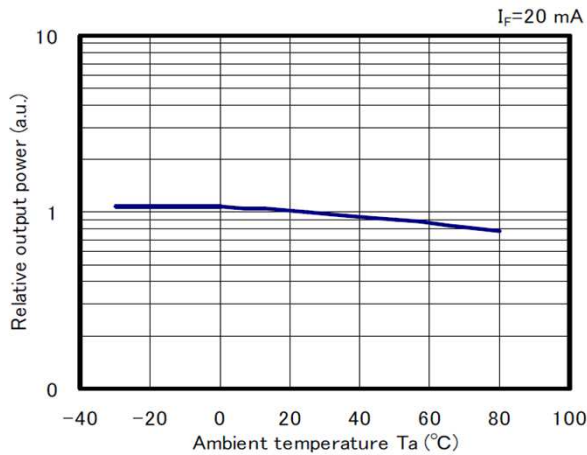
■ **Forward voltage vs. Forward current**



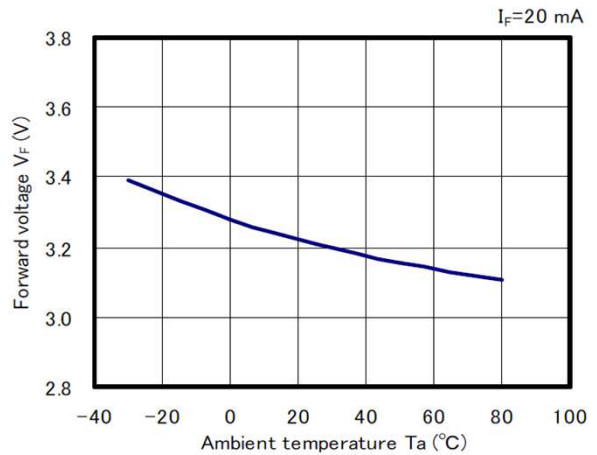
■ **Forward current vs. Relative output power**



■ **Ambient temperature vs. Relative output power**



■ **Ambient temperature vs. Forward voltage**



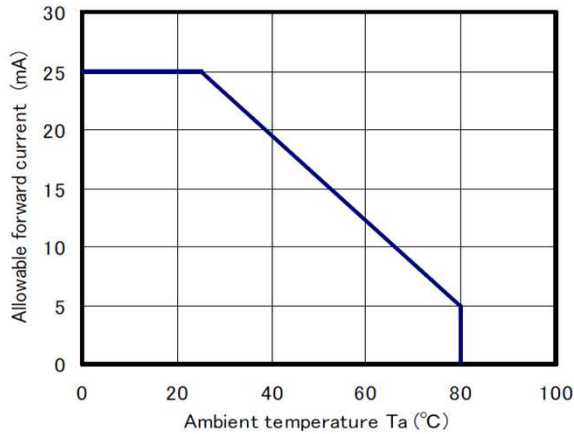
Data sheet

UV LED

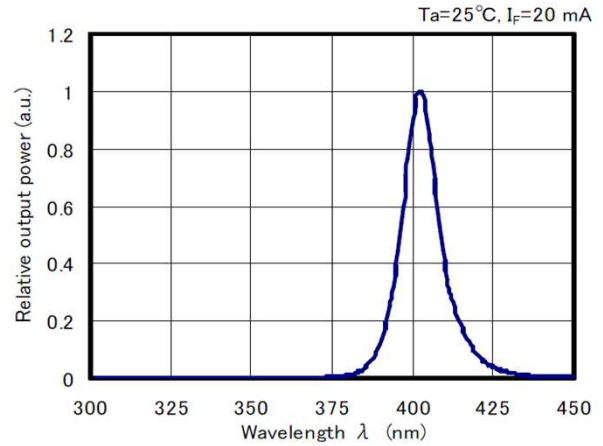
EOLD-400-545 HP

■ Ambient temperature vs.

Allowable forward current



■ Spectrum



■ Directivity

