

Peak Emission Wavelength: 363-370nm

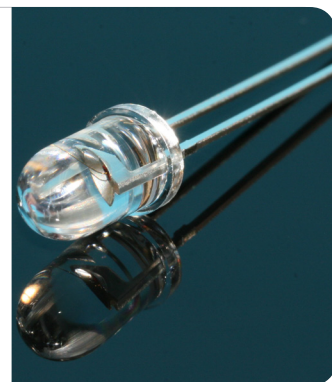
The MT5365-UV is a UV T 1 3/4, 5mm water clear LED designed for applications requiring high power and high reliability packaged with straight leads.

FEATURES

- > High Power
- > High Reliability
- > High Speed
- > Narrow Beam Angle

APPLICATIONS

- > UV Curing
- > Currency Validation
- > Document Verification
- > Sterilization



Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	25	mA
Peak Forward Current*1	IFP	100	mA
Reverse Current	IR	85	mA
Power Dissipation	PD	100	mW
Operating Temperature Range	Topr	-30 ~ +80	°C
Storage Temperature Range	Tstg	-30 ~ +85	°C
Lead Soldering Temperature*2	Tls	260	°C

*1: Test Conditions: D.C.<1/10, p. width<0.1msec. *2: Time 5 Sec max, Position: Up to 3mm from the body.

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	VF	IF=20mA	3.2	3.6	4.2	V
Radiant Power	Φe	IF=20mA	2.4	--	6.0	mW
Peak Emission Wavelength	λp	IF=20mA	363	--	370	nm
Viewing Angle	Θ	IF=20mA	--	15	--	deg.
Spectral Bandwidth at 50%	Δλ _{0.5}	IF=20mA	10	--	20	nm

RADIATION

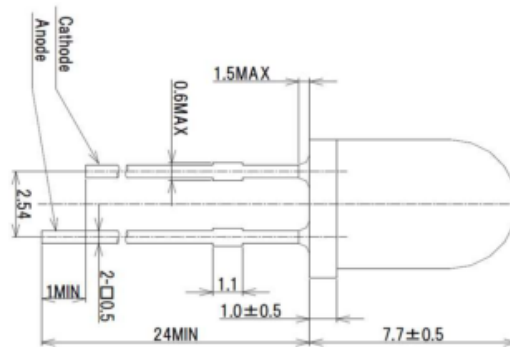
Ultra Violet

TYPE

Resin Mold Packaged

CASE

5mm Plastic Lens



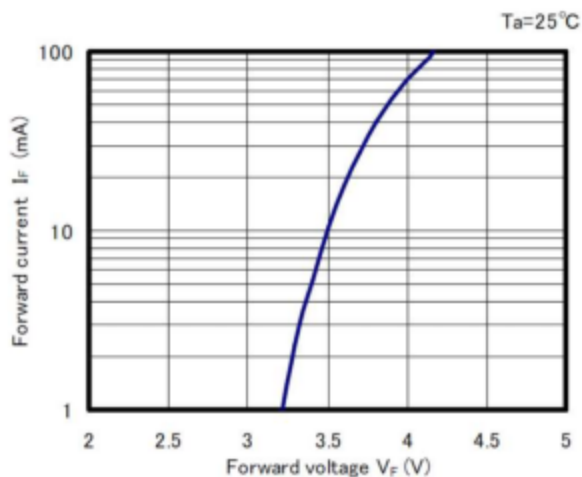
Unit: mm



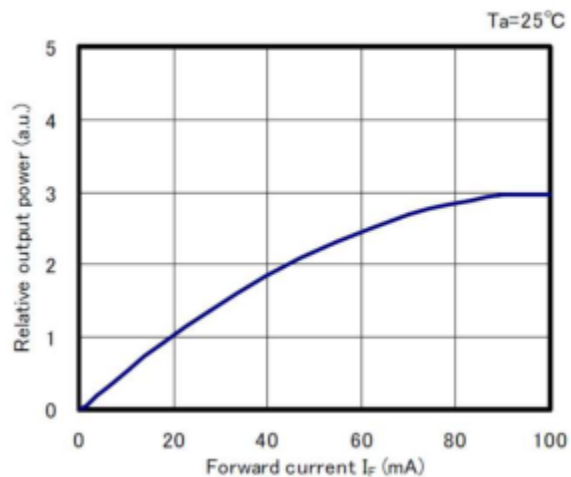
CAUTION

1. LEDs emit very strong UV radiation during operation.
2. Don't look directly into the LED light when in operation as UV radiation can harm your eyes.
3. To prevent even inadequate exposure, wear protective eyewear.
4. If LEDs are embedded in devices, please indicate warning labels against the UV LED used.
5. Avoid prolonged exposure to skin or other tissue during operation.
6. Keep out of reach of children.
7. Take appropriate precautions around pets and other living organisms to avoid UV exposure.
8. Specification and dimension are subject to change without notice.

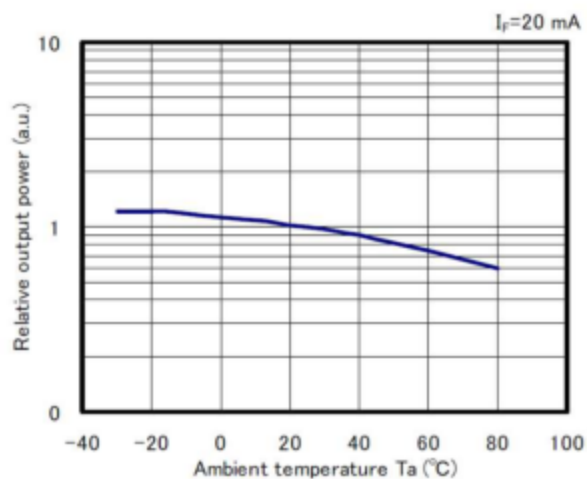
■ Forward voltage vs. Forward current



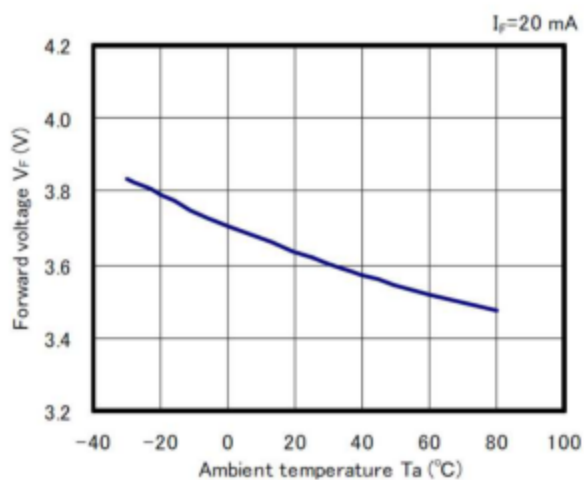
■ Forward current vs. Relative output power



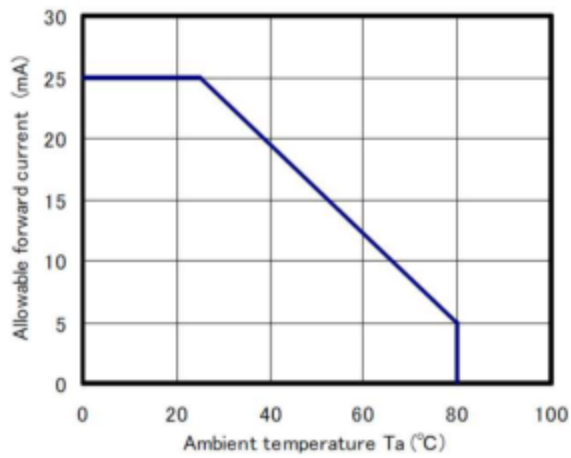
■ Ambient temperature vs. Relative output power



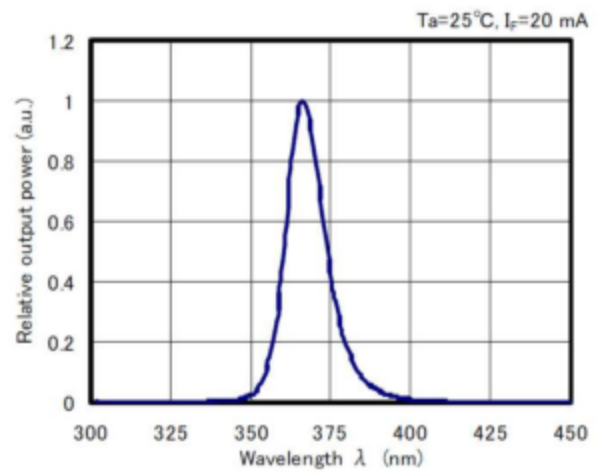
■ Ambient temperature vs. Forward voltage



■ Ambient temperature vs. Allowable forward current



■ Spectrum



■ Directivity

